

NEWFIELD



Route #3 Box 3630
Myton, Utah 84052
(435) 646-4825, FAX: (435) 646-3031

July 16, 2008

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Mason
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill
Greater Boundary II Federal R-34-8-17
Greater Boundary II Federal S-34-8-17
Pariette Federal K-34-8-18
Pariette Federal S-34-8-18
Pariette Federal T-34-8-18
South Wells Draw Federal B-9-9-16
Jonah Federal Q-14-9-16
Sundance Federal L-12-9-17

Dear Diana:

Enclosed find APD's on the above referenced wells. Our Land Department will send you the required Directional Drill Letters. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier
Regulatory Specialist

mc
enclosures

RECEIVED
JUL 22 2008
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

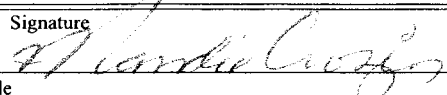
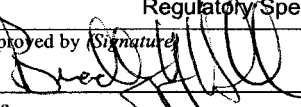
FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

| | | |
|--|--|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. UTU-79017 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name N/A |
| 2. Name of Operator Newfield Production Company | | 7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | | 8. Lease Name and Well No. Greater Boundary II Federal S-34-8-17 |
| 3b. Phone No. (include area code) (435) 646-3721 | | 9. API Well No. 43-013-34038 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SE 1899' FSL 1981' FEL At proposed prod. zone 1250' FSL 1330' FEL | | 10. Field and Pool, or Exploratory Monument Butte |
| 14. Distance in miles and direction from nearest town or post office* Approximately 15.7 miles southeast of Myton, Utah | | 11. Sec., T., R., M., or Blk. and Survey or Area Sec. 34, T8S R17E |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 10' f/lse, 1330' f/unit | 16. No. of Acres in lease 160.00 | 12. County or Parish Duchesne |
| 17. Spacing Unit dedicated to this well 20 Acres | 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1490' | 13. State UT |
| 19. Proposed Depth 6180' | 20. BLM/BIA Bond No. on file WYB000493 | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5059' GL | 22. Approximate date work will start* 4th Quarter 2008 | 23. Estimated duration Approximately seven (7) days from spud to rig release. |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

| | | |
|--|---|------------------|
| 25. Signature  | Name (Printed/Typed) Mandie Crozier | Date 7/15/08 |
| Title Regulatory Specialist | | |
| Approved by (Signature)  | Name (Printed/Typed) BRADLEY G. HILL | Date 07-31-08 |
| Title Office ENVIRONMENTAL MANAGER | | |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Surf 586156X
4436082Y
40.072491
-109.989638

BHL
586356X
4435888Y
40.070719
-109.987319

Federal Approval of this
Action Is Necessary

RECEIVED

JUL 22 2008

DIV. OF OIL, GAS & MINING

T8S, R17E, S.L.B.&M.

N89°59'W - 80.02 (G.L.O.)

N89°58'45"W - 2644.61' (Meas.)

N89°56'07"W - 2643.41' (Meas.)

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY S-34-8-17, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 34, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

WELL LOCATION:
GREATER BOUNDARY S-34-8-17
ELEV. EXIST. GRADED GROUND = 5059'

34

Top of Hole

DRILLING WINDOW

200'

1981'

1330'

Bottom of Hole

1250'

913.13'
S45°21'05"E

1899'

1910 Brass Cap

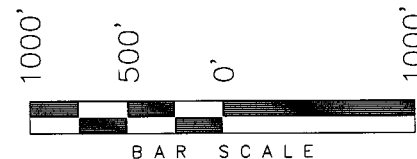
1910 Brass Cap

1910 Brass Cap

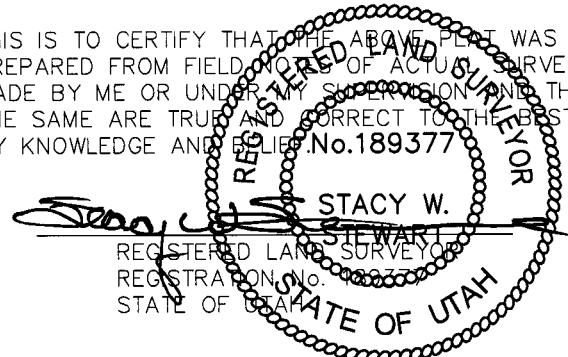
1910 Brass Cap

N89°58'E G.L.O. (Basis of Bearings)
2642.39' (Measured)

N89°20'32"E - 2638.74' (Meas.)
N89°58'E (G.L.O.)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD WORK OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 189377



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|--------------------------|-------------------|
| DATE SURVEYED: 5-2-08 | SURVEYED BY: T.H. |
| DATE DRAWN: 5-7-08 | DRAWN BY: M.W. |
| REVISED: | SCALE: 1" = 1000' |



= SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

GREATER BOUNDARY S-34-8-17
(Surface Location) NAD 83
LATITUDE = 40° 04' 20.71"
LONGITUDE = 109° 59' 25.14"

**NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL S-34-8-17
AT SURFACE: NW/SE SECTION 34, T8S, R17E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

| | |
|-------------|------------|
| Uinta | 0' – 1496' |
| Green River | 1496' |
| Wasatch | 6180' |

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1496' – 6180' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY
GREATER BOUNDARY II FEDERAL S-34-8-17
AT SURFACE: NW/SE SECTION 34, T8S, R17E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Boundary II Federal S-34-8-17 located in the NW 1/4 SE 1/4 Section 34, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.6 miles \pm to it's junction with an existing dirt road to the northeast; proceed northeasterly - 2.2 miles \pm to it's junction with an existing road to the west; proceed in a northwesterly direction - 0.5 miles \pm to it's junction with the beginning of the access road to the existing Greater Boundary 10-34-8-17 well location.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Greater Boundary 10-34-8-17 well pad. See attached **Topographic Map "B"**.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the Greater Boundary 10-34-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Greater Boundary II Federal S-34-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson, Water District
Water Right: 43-10136

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well

Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Greater Boundary II Federal S-34-8-17 will be drilled off of the existing Greater Boundary 10-34-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 70' of disturbed area be granted in Lease UTU-79017 to allow for construction of the proposed surface gas lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a 10" or smaller gas gathering line, and a 3" poly fuel gas line and 30' wide upon completion of the proposed gas lines. Both lines will tie in to the existing pipeline infrastructure. Refer to **Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

The Archaeological Resource Survey and Paleontological Resource Survey for the 70' of proposed water injection line are attached. MOAC Report #01-23, 3/21/01. Paleontological Resource Survey prepared by, Wade E. Miller, 6/11/08. See attached report cover pages, **Exhibit "D"**.

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

Golden Eagle: Due to this proposed well access roads proximity (less than 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between Feb 1 and July 15. If the nest remains inactive on July 15th (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between July 15

and Feb. 1 of the following year. If the nest site becomes active prior to July 15, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

| | | |
|---------------------|-------------------------------|---------------|
| Squirrell Tail | <i>Elymus Elymoides</i> | 6 lbs/acre |
| Siberian Wheatgrass | <i>Agropyron Fragile</i> | 2 lbs/acre |
| Gardner Saltbush | <i>Atriplex Gardneri</i> | 1 lbs/acre |
| Shadscale | <i>Atriplex Confertifolia</i> | 1 lbs/acre |
| Fourwing Saltbush | <i>Atriplex Canescens</i> | 1 lbs/acre |
| Scarlet Globemallow | <i>Sphaeralcea Conccinea</i> | 0.20 lbs/acre |
| Forage Kochia | <i>Kochia Prostrata</i> | 0.20 lbs/acre |

Details of the On-Site Inspection

The proposed Greater Boundary II Federal S-34-8-17 was on-sited on 6/11/08. The following were present; Kevan Stevens (Newfield Production), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management), and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Dave Allred
Address: Route #3 Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

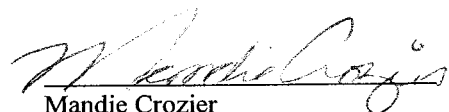
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #S-34-8-17 NW/SE Section 34, Township 8S, Range 17E: Lease UTU-79017 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/15/08

Date



Mandie Crozier
Regulatory Specialist
Newfield Production Company

Exhibit "D"
1 of 2

**CULTURAL RESOURCE INVENTORY OF INLAND RESOURCES
400 ACRE PARCEL IN TOWNSHIP 8S, RANGE 17E, SECTION 34
DUCHESNE COUNTY, UTAH**

by

**Keith R. Montgomery
and
Sarah Ball**

Prepared For:

**Bureau of Land Management
Vernal Field Office**

Prepared Under Contract With:

**Inland Resources
2507 Flintridge Place
Fort Collins CO 80521**

Prepared By:

**Montgomery Archaeological Consultants
P.O. Box 147
Moab, Utah 84532**

MOAC Report No. 01-23

March 21, 2001

**United States Department of Interior (FLPMA)
Permit No. 00-UT-60122**

**State of Utah Antiquities Project (Survey)
Permit No. U-01-MQ-0076b**

NEWFIELD EXPLORATION COMPANY

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED DEVELOPMENT**AREAS AND WATER PIPELINE TIE-INS,
DUCHESNE & UINTA COUNTIES, UTAH****Pariette Draw and Greater Boundary Areas**

NE 1/4, SE 1/4, Section 34, T 8 S, R 18 E (43-34-8-18);

NW 1/4, SE 1/4, Section 34, T 8 S, R 17 E (10-34-8-17)

Horseshoe Bend Area

NW 1/4, NW 1/4, & SE 1/4, SE 1/4, Section 9, T 6 S, R 20 E (4 & 16-9-6-20); NW 1/4, NE 1/4, Section 26, T 6 S, R 20 E (2-26-6-20); NW 1/4, NE 1/4, Section 17, T 6 S, R 20 E (2-17-6-20); NW 1/4, SW 1/4, & SE 1/4, SE 1/4 Section 6, T 6 S, R 20 E (12 & 16-6-20); NW 1/4, SW 1/4, Section 5, T 6 S, R 20 E (12-5-6-20); NE 1/4, NE 1/4, Section 36, T 6 S, R 20 E (1-36-6-20); NW 1/4, SW 1/4, Section 7, T 6 S, R 21 E (12-7-6-21)

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
June 11, 2008



Scientific Drilling
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: Plan #1

Newfield Exploration Co.

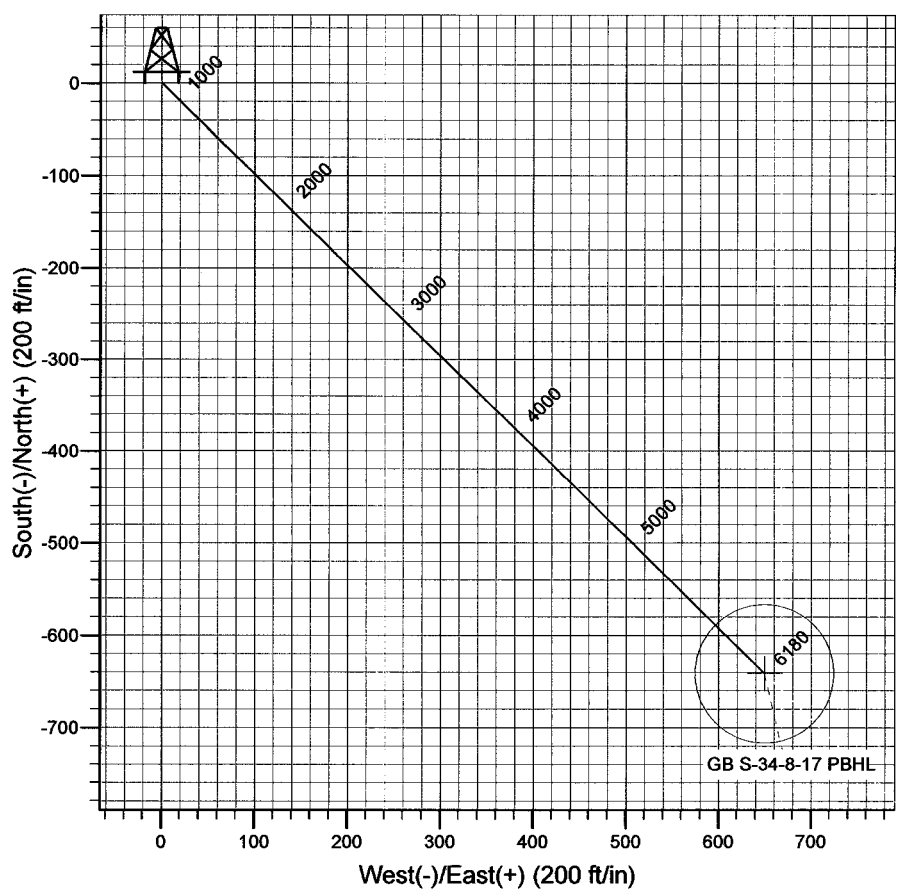
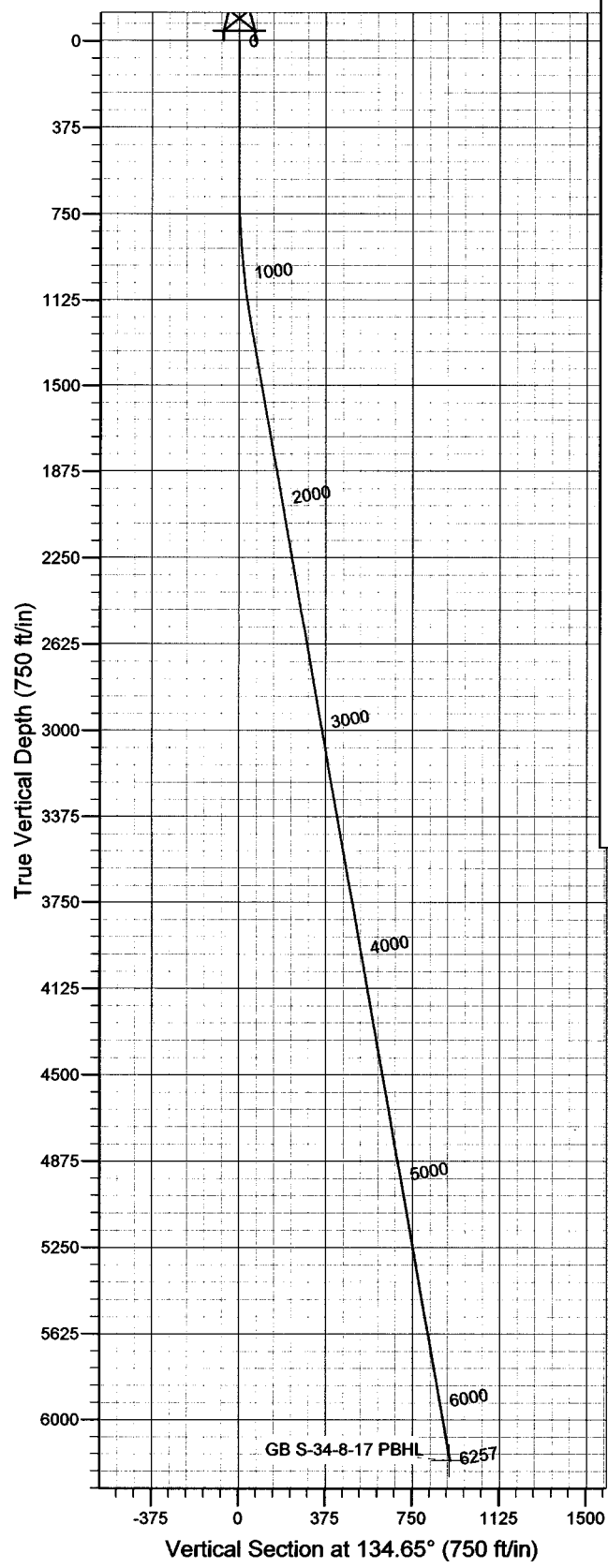


Azimuths to True North
Magnetic North: 11.65°

Magnetic Field
Strength: 52613.5snT
Dip Angle: 65.91°
Date: 2008-07-13
Model: IGRF2005-10

WELL DETAILS: Greater Boundary S-34-8-17

GL 5059' & RKB 12' @ 5071.00ft 5059.00
+N/-S 0.00 +E/-W 0.00 Northing 7198682.39 Easting 2062871.88 Latitude 40° 4' 20.710 N Longitude 109° 59' 25.140 W



Plan: Plan #1 (Greater Boundary S-34-8-17/OH)

Created By: Julie Cruse Date: 2008-07-13

PROJECT DETAILS: Duchesne County, UT NAD83 UTC

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
Location:
System Datum: Mean Sea Level
Local North: True

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---------|------|--------|---------|---------|--------|------|--------|--------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1257.74 | 9.87 | 134.65 | 1254.50 | -39.70 | 40.19 | 1.50 | 134.65 | 56.49 | |
| 6257.18 | 9.87 | 134.65 | 6180.00 | -641.72 | 649.61 | 0.00 | 0.00 | 913.13 | GB S-34-8-17 PBHL |

Newfield Exploration Co.

Duchesne County, UT NAD83 UTC

Greater Boundary

Greater Boundary S-34-8-17

OH

Plan: Plan #1

Standard Planning Report

13 July, 2008

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

| | | | |
|--------------------|-------------------------------|----------------------|----------------|
| Project | Duchesne County, UT NAD83 UTC | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Utah Central Zone | | |

| | | | |
|------------------------------|------------------|--------------------------|------------------|
| Site | Greater Boundary | | |
| Site Position: | | Northing: | 7,202,495.58 ft |
| From: | Lat/Long | Easting: | 2,057,628.96 ft |
| Position Uncertainty: | 0.00 ft | Slot Radius: | in |
| | | Latitude: | 40° 4' 59.260 N |
| | | Longitude: | 110° 0' 31.760 W |
| | | Grid Convergence: | 0.96 ° |

| | | | |
|-----------------------------|---|----------------------------|----------------------------------|
| Well | Greater Boundary S-34-8-17, 1899' FSL 1981' FEL Sec 34 T8S R17E | | |
| Well Position | +N/-S | 0.00 ft | Northing: 7,198,682.39 ft |
| | +E/-W | 0.00 ft | Easting: 2,062,871.88 ft |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | ft |
| | | Latitude: | 40° 4' 20.710 N |
| | | Longitude: | 109° 59' 25.140 W |
| | | Ground Level: | 5,059.00 ft |

| | | | |
|------------------|-------------------|--------------------|----------------------------|
| Wellbore | OH | | |
| Magnetics | Model Name | Sample Date | Declination (°) |
| | IGRF2005-10 | 2008-07-13 | 11.65 |
| | | | Dip Angle (°) |
| | | | 65.91 |
| | | | Field Strength (nT) |
| | | | 52,614 |

| | | | |
|--------------------------|------------------------------|-------------------|---------------------------|
| Design | Plan #1 | | |
| Audit Notes: | | | |
| Version: | Phase: | PLAN | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) |
| | 0.00 | 0.00 | 0.00 |
| | | | Direction (°) |
| | | | 134.65 |

| Plan Sections | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,257.74 | 9.87 | 134.65 | 1,254.50 | -39.70 | 40.19 | 1.50 | 1.50 | 0.00 | 134.65 | |
| 6,257.18 | 9.87 | 134.65 | 6,180.00 | -641.72 | 649.61 | 0.00 | 0.00 | 0.00 | 0.00 | GB S-34-8-17 PBHL |

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 1.50 | 134.65 | 699.99 | -0.92 | 0.93 | 1.31 | 1.50 | 1.50 | 0.00 |
| 800.00 | 3.00 | 134.65 | 799.91 | -3.68 | 3.72 | 5.23 | 1.50 | 1.50 | 0.00 |
| 900.00 | 4.50 | 134.65 | 899.69 | -8.28 | 8.38 | 11.77 | 1.50 | 1.50 | 0.00 |
| 1,000.00 | 6.00 | 134.65 | 999.27 | -14.71 | 14.89 | 20.92 | 1.50 | 1.50 | 0.00 |
| 1,100.00 | 7.50 | 134.65 | 1,098.57 | -22.97 | 23.25 | 32.68 | 1.50 | 1.50 | 0.00 |
| 1,200.00 | 9.00 | 134.65 | 1,197.54 | -33.05 | 33.46 | 47.03 | 1.50 | 1.50 | 0.00 |
| 1,257.74 | 9.87 | 134.65 | 1,254.50 | -39.70 | 40.19 | 56.49 | 1.50 | 1.50 | 0.00 |
| 1,300.00 | 9.87 | 134.65 | 1,296.13 | -44.79 | 45.34 | 63.73 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 9.87 | 134.65 | 1,394.65 | -56.83 | 57.53 | 80.87 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 9.87 | 134.65 | 1,493.17 | -68.87 | 69.72 | 98.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 9.87 | 134.65 | 1,591.69 | -80.91 | 81.91 | 115.14 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 9.87 | 134.65 | 1,690.21 | -92.96 | 94.10 | 132.27 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 9.87 | 134.65 | 1,788.73 | -105.00 | 106.29 | 149.40 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 9.87 | 134.65 | 1,887.26 | -117.04 | 118.48 | 166.54 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 9.87 | 134.65 | 1,985.78 | -129.08 | 130.67 | 183.67 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 9.87 | 134.65 | 2,084.30 | -141.12 | 142.86 | 200.81 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 9.87 | 134.65 | 2,182.82 | -153.17 | 155.05 | 217.94 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 9.87 | 134.65 | 2,281.34 | -165.21 | 167.24 | 235.08 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 9.87 | 134.65 | 2,379.86 | -177.25 | 179.43 | 252.21 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 9.87 | 134.65 | 2,478.38 | -189.29 | 191.62 | 269.35 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 9.87 | 134.65 | 2,576.90 | -201.33 | 203.81 | 286.48 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 9.87 | 134.65 | 2,675.42 | -213.37 | 216.00 | 303.62 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 9.87 | 134.65 | 2,773.95 | -225.42 | 228.19 | 320.75 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 9.87 | 134.65 | 2,872.47 | -237.46 | 240.38 | 337.89 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 9.87 | 134.65 | 2,970.99 | -249.50 | 252.57 | 355.02 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 9.87 | 134.65 | 3,069.51 | -261.54 | 264.76 | 372.16 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 9.87 | 134.65 | 3,168.03 | -273.58 | 276.95 | 389.29 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 9.87 | 134.65 | 3,266.55 | -285.63 | 289.14 | 406.43 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 9.87 | 134.65 | 3,365.07 | -297.67 | 301.33 | 423.56 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 9.87 | 134.65 | 3,463.59 | -309.71 | 313.52 | 440.69 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 9.87 | 134.65 | 3,562.11 | -321.75 | 325.71 | 457.83 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 9.87 | 134.65 | 3,660.64 | -333.79 | 337.90 | 474.96 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 9.87 | 134.65 | 3,759.16 | -345.83 | 350.09 | 492.10 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 9.87 | 134.65 | 3,857.68 | -357.88 | 362.28 | 509.23 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 9.87 | 134.65 | 3,956.20 | -369.92 | 374.47 | 526.37 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 9.87 | 134.65 | 4,054.72 | -381.96 | 386.66 | 543.50 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 9.87 | 134.65 | 4,153.24 | -394.00 | 398.84 | 560.64 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 9.87 | 134.65 | 4,251.76 | -406.04 | 411.03 | 577.77 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 9.87 | 134.65 | 4,350.28 | -418.09 | 423.22 | 594.91 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 9.87 | 134.65 | 4,448.80 | -430.13 | 435.41 | 612.04 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 9.87 | 134.65 | 4,547.32 | -442.17 | 447.60 | 629.18 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 9.87 | 134.65 | 4,645.85 | -454.21 | 459.79 | 646.31 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 9.87 | 134.65 | 4,744.37 | -466.25 | 471.98 | 663.45 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 9.87 | 134.65 | 4,842.89 | -478.29 | 484.17 | 680.58 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 9.87 | 134.65 | 4,941.41 | -490.34 | 496.36 | 697.72 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 9.87 | 134.65 | 5,039.93 | -502.38 | 508.55 | 714.85 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 9.87 | 134.65 | 5,138.45 | -514.42 | 520.74 | 731.98 | 0.00 | 0.00 | 0.00 |

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,300.00 | 9.87 | 134.65 | 5,236.97 | -526.46 | 532.93 | 749.12 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 9.87 | 134.65 | 5,335.49 | -538.50 | 545.12 | 766.25 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 9.87 | 134.65 | 5,434.01 | -550.55 | 557.31 | 783.39 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 9.87 | 134.65 | 5,532.54 | -562.59 | 569.50 | 800.52 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 9.87 | 134.65 | 5,631.06 | -574.63 | 581.69 | 817.66 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 9.87 | 134.65 | 5,729.58 | -586.67 | 593.88 | 834.79 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 9.87 | 134.65 | 5,828.10 | -598.71 | 606.07 | 851.93 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 9.87 | 134.65 | 5,926.62 | -610.75 | 618.26 | 869.06 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 9.87 | 134.65 | 6,025.14 | -622.80 | 630.45 | 886.20 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 9.87 | 134.65 | 6,123.66 | -634.84 | 642.64 | 903.33 | 0.00 | 0.00 | 0.00 |
| 6,257.18 | 9.87 | 134.65 | 6,180.00 | -641.72 | 649.61 | 913.13 | 0.00 | 0.00 | 0.00 |

Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-------------------|
| GB S-34-8-17 PBHL - plan hits target center - Circle (radius 75.00) | 0.00 | 0.00 | 6,180.00 | -641.72 | 649.61 | 7,198,051.72 | 2,063,532.23 | 40° 4' 14.368 N | 109° 59' 16.783 W |

NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY S-34-8-17 (Proposed Well)

GREATER BOUNDARY 10-34-8-17 (Existing Well)

Pad Location: NWSE Section 34, T8S, R17E, S.L.B.&M.

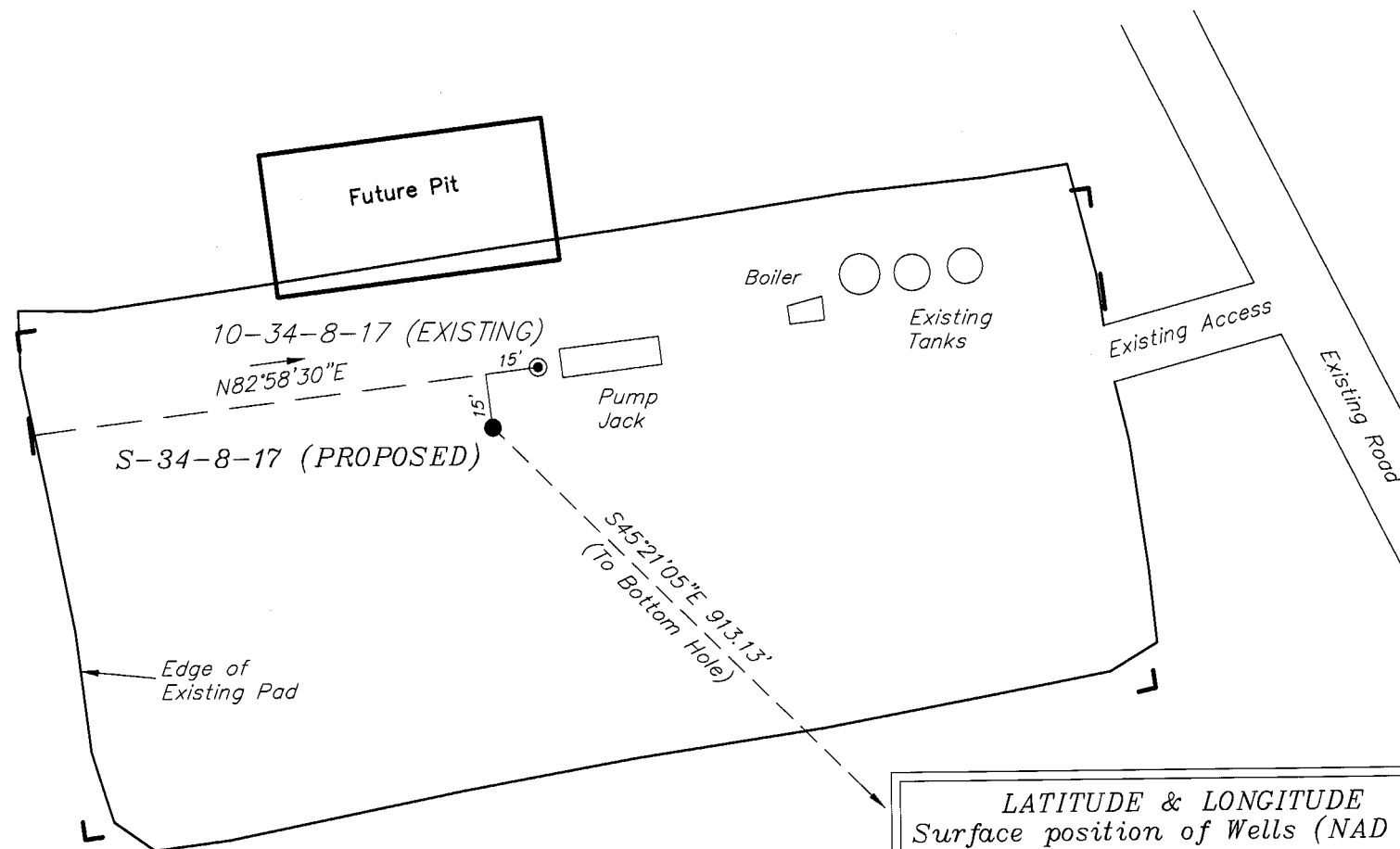
N

TOP HOLE FOOTAGES

S-34-8-17 (PROPOSED)
1899' FSL & 1981' FEL

BOTTOM HOLE FOOTAGES

S-34-8-17 (PROPOSED)
1250' FSL & 1330' FEL



Note:

Bearings are based on
GLO Information.

RELATIVE COORDINATES From top hole to bottom hole

| WELL | NORTH | EAST |
|-----------|-------|------|
| S-34-8-17 | -642' | 650' |

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

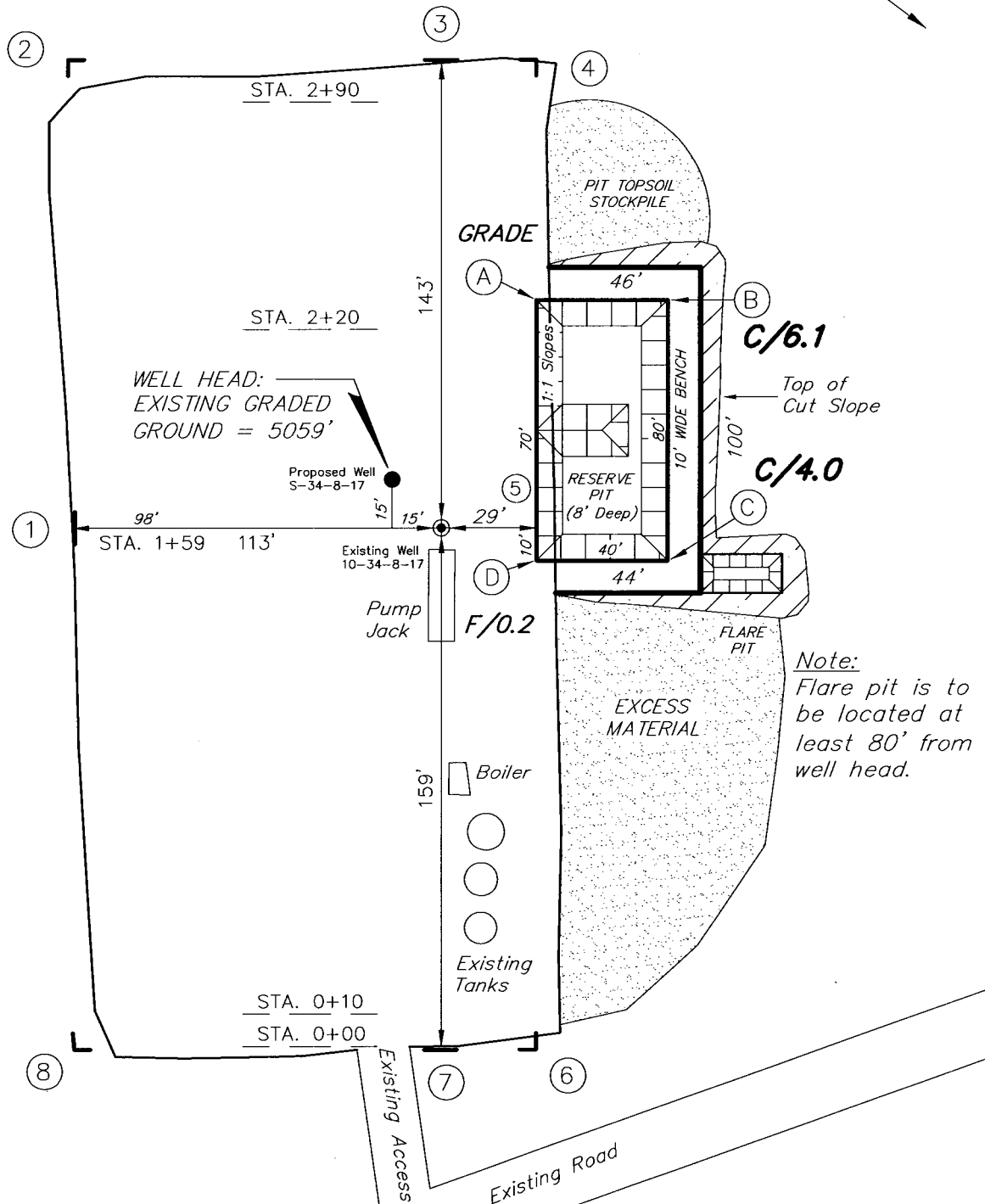
| WELL | LATITUDE | LONGITUDE |
|------------|----------------|-----------------|
| S-34-8-17 | 40° 04' 20.71" | 109° 59' 25.14" |
| 10-34-8-17 | 40° 04' 20.88" | 110° 59' 24.97" |

SURVEYED BY: T.H. DATE SURVEYED: 5-2-08
DRAWN BY: M.W. DATE DRAWN: 5-7-08
SCALE: 1" = 50' REVISED:

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

GREATER BOUNDARY S-34-8-17 (Proposed Well)
GREATER BOUNDARY 10-34-8-17 (Existing Well)



| | |
|-------------------|-----------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 5-2-08 |
| DRAWN BY: M.W. | DATE DRAWN: 5-7-08 |
| SCALE: 1" = 50' | REVISED: |

Tri State (4)
Land Surveying, Inc.

(435) 781-2501

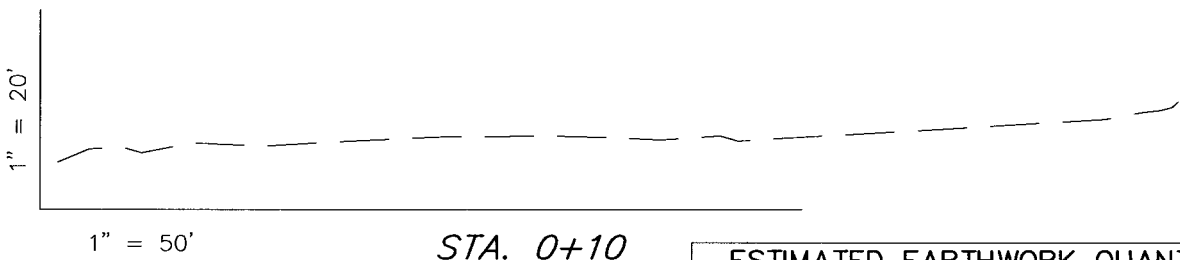
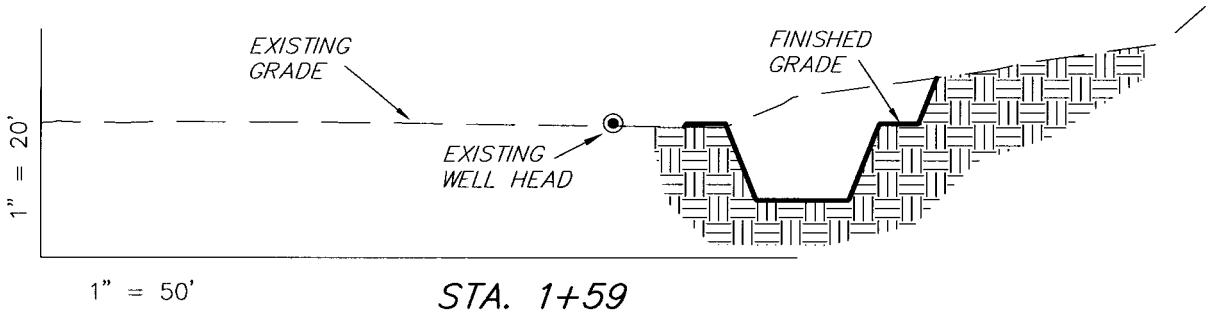
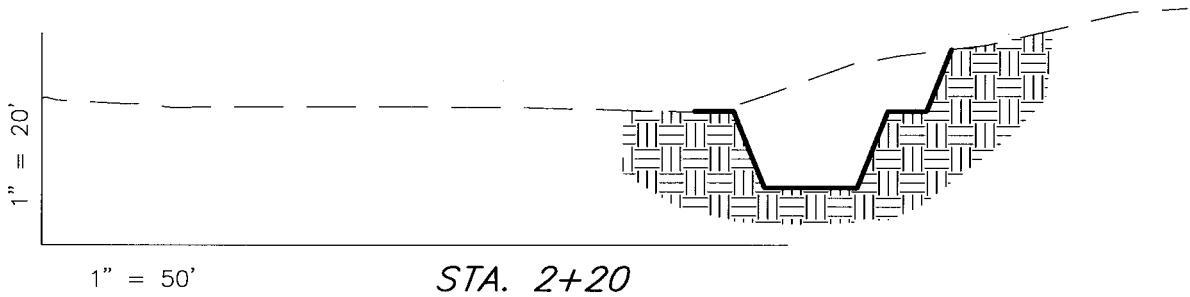
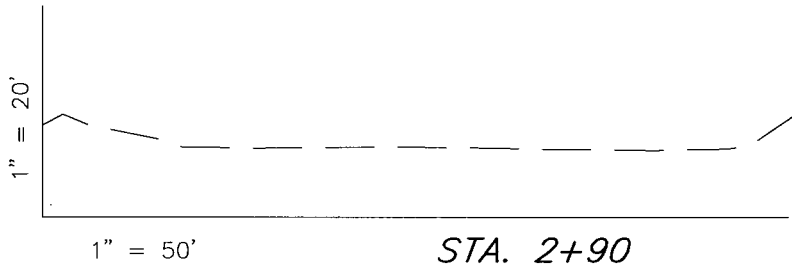
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEW FIELD PRODUCTION COMPANY

CROSS SECTIONS

GREATER BOUNDARY S-34-8-17 (Proposed Well)

GREATER BOUNDARY 10-34-8-17 (Existing Well)



NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

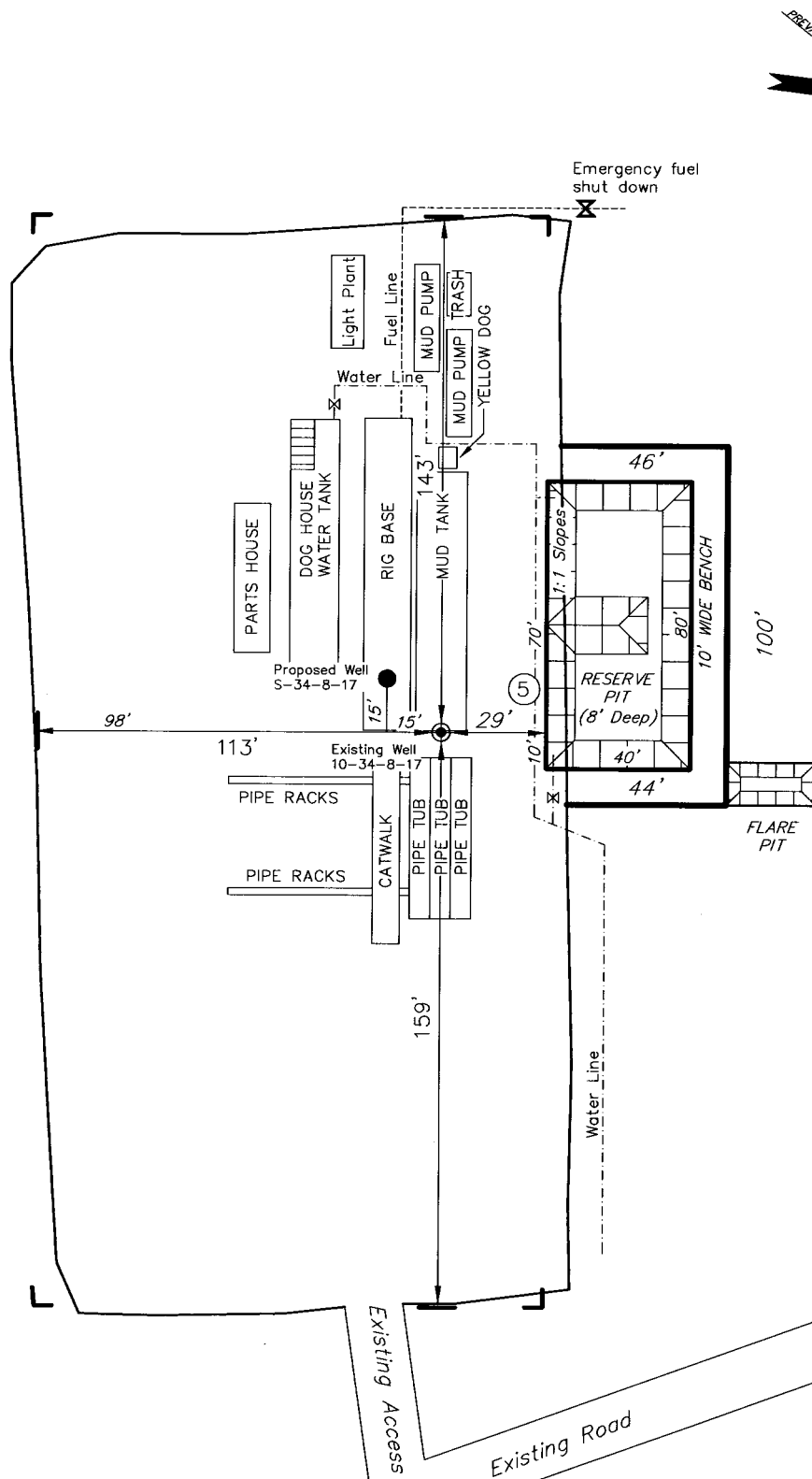
| ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards) | | | | |
|---|-------|------|--|--------|
| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
| PAD | 810 | 0 | Topsoil is not included in Pad Cut | 810 |
| PIT | 640 | 0 | | 640 |
| TOTALS | 1,450 | 0 | 140 | 1,450 |

| | |
|-------------------|-----------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 5-2-08 |
| DRAWN BY: M.W. | DATE DRAWN: 5-7-08 |
| SCALE: 1" = 50' | REVISED: |

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

TYPICAL RIG LAYOUT

GREATER BOUNDARY S-34-8-17 (Proposed Well)
GREATER BOUNDARY 10-34-8-17 (Existing Well)



Note:
Flare pit is to be located at least 80' from well head.

| | |
|-------------------|-----------------------|
| SURVEYED BY: T.H. | DATE SURVEYED: 5-2-08 |
| DRAWN BY: M.W. | DATE DRAWN: 5-7-08 |
| SCALE: 1" = 50' | REVISED: |

Tri State
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Wewfield Production Company Proposed Site Facility Diagram

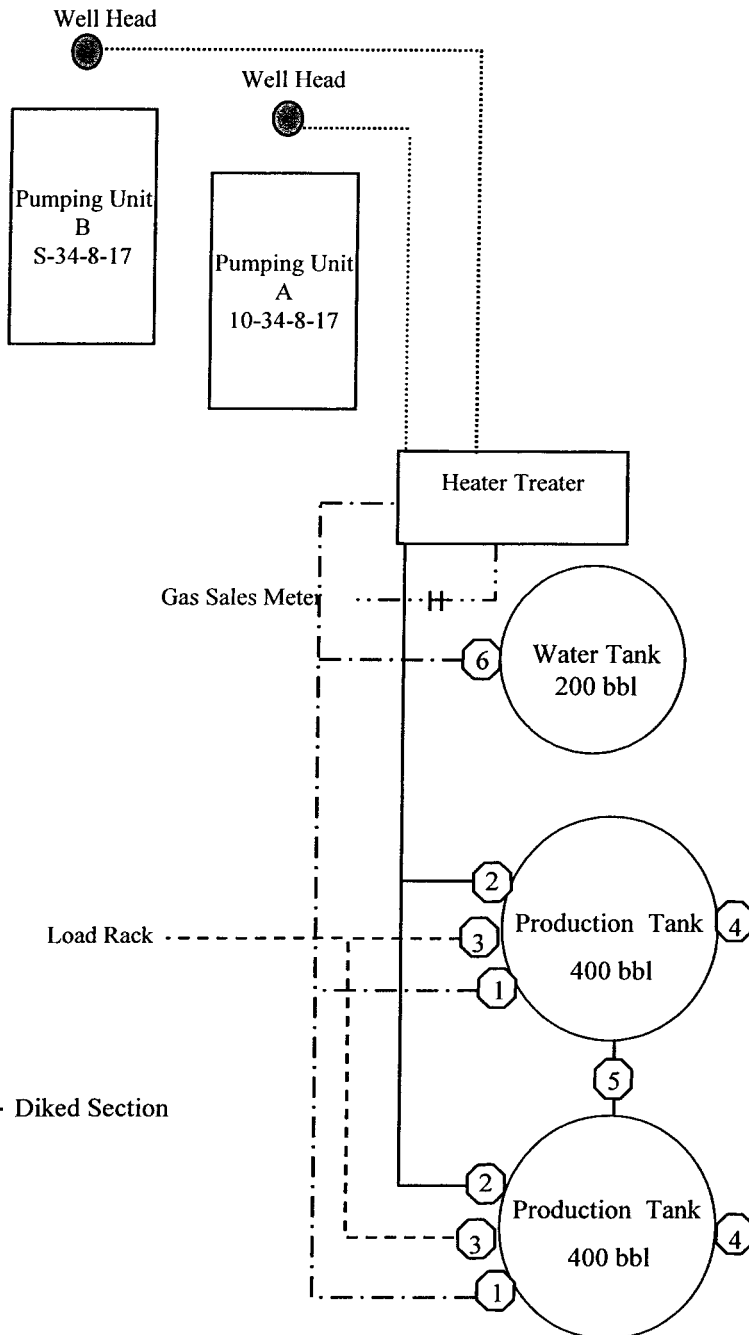
Greater Boundary II Federal S-34-8-17

From the 10-34-8-17 Location

NW/SE Sec. 34 T8S, R17E

Duchesne County, Utah

UTU-79017



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

Sales Phase:

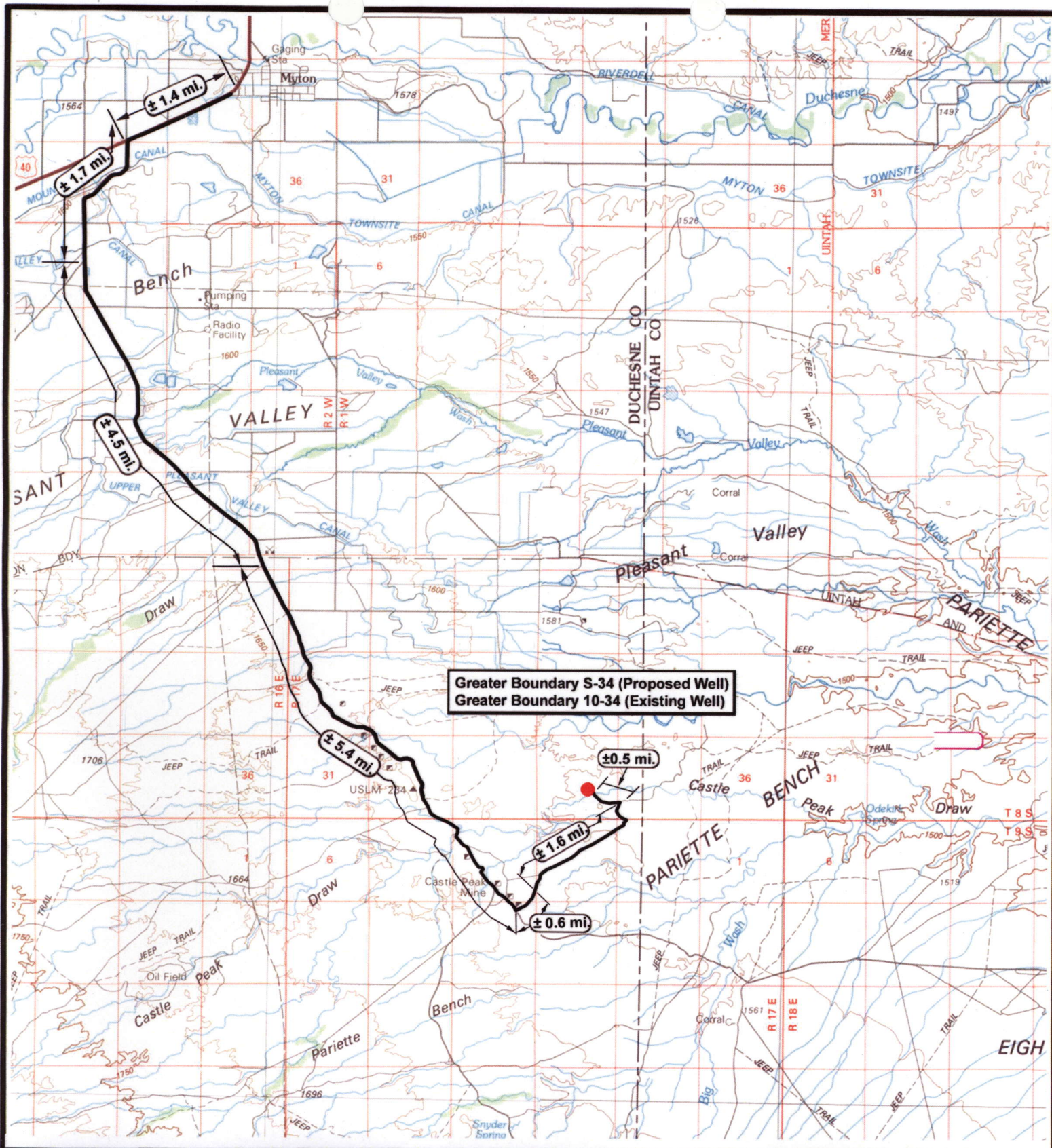
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

Draining Phase:

- 1) Valves 1 and 6 open

Legend

| | |
|---------------|-----------|
| Emulsion Line | |
| Load Rack | ----- |
| Water Line | - - - - - |
| Gas Sales | |
| Oil Line | ————— |



NEWFIELD
Exploration Company

Greater Boundary S-34-8-17 (Proposed Well)
Greater Boundary 10-34-8-17 (Existing Well)
Pad Location NWSE Sec. 34, T8S, R17E, S.L.B.&M.

Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

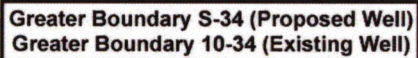
SCALE: 1 : 100,000
DRAWN BY: JAS
DATE: 05-12-2008

Legend

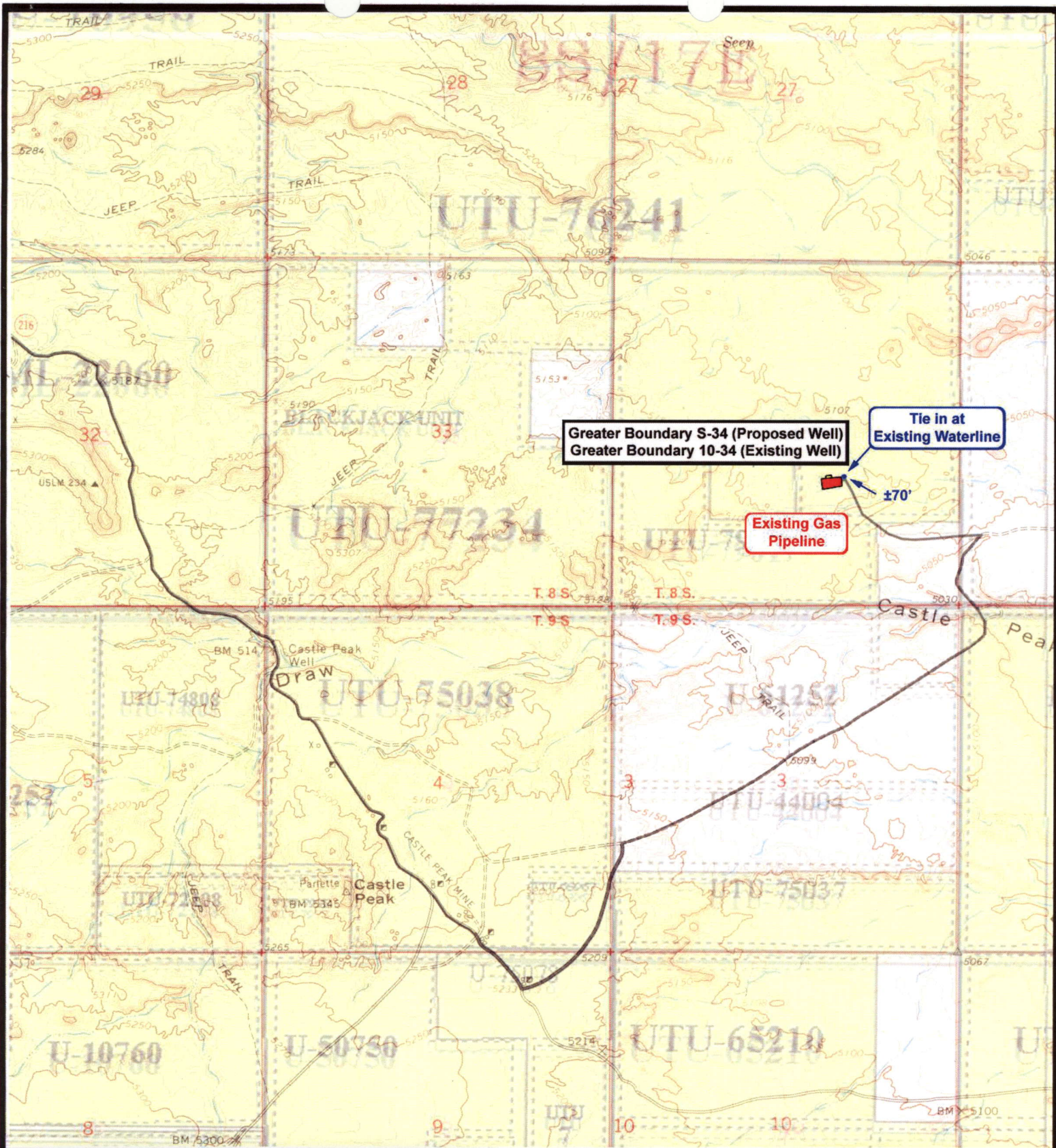
Existing Road


TOPOGRAPHIC MAP

"A"



"B"





NEWFIELD
Exploration Company

Greater Boundary S-34-8-17 (Proposed Well)
Greater Boundary 10-34-8-17 (Existing Well)
 Pad Location NWSE Sec. 34, T8S, R17E, S.L.B.&M.



Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: JAS
 DATE: 05-12-2008

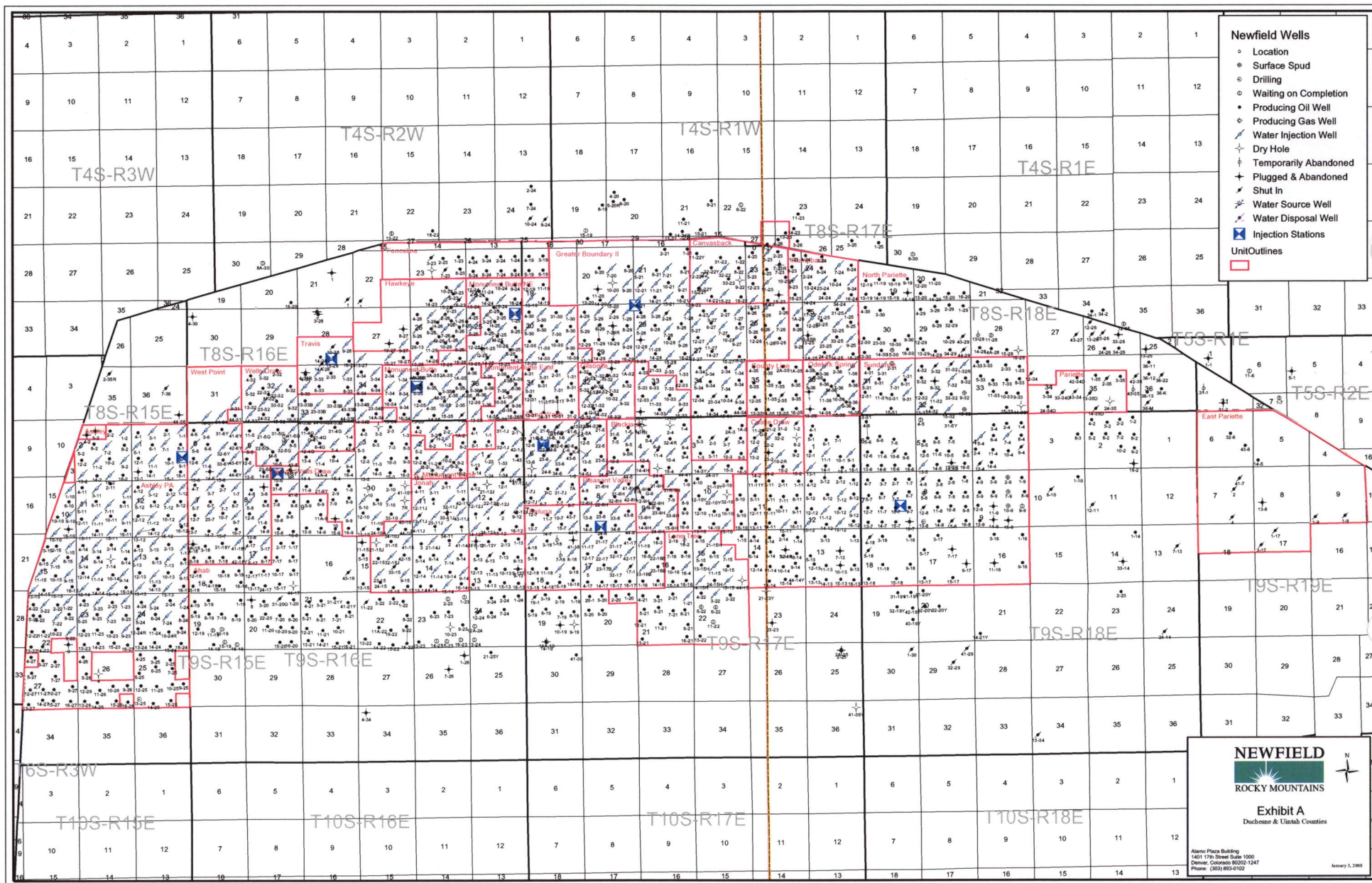
Legend

— Roads

— Proposed Water Line

TOPOGRAPHIC MAP

"C"



2-M SYSTEM

Blowout Prevention Equipment Systems

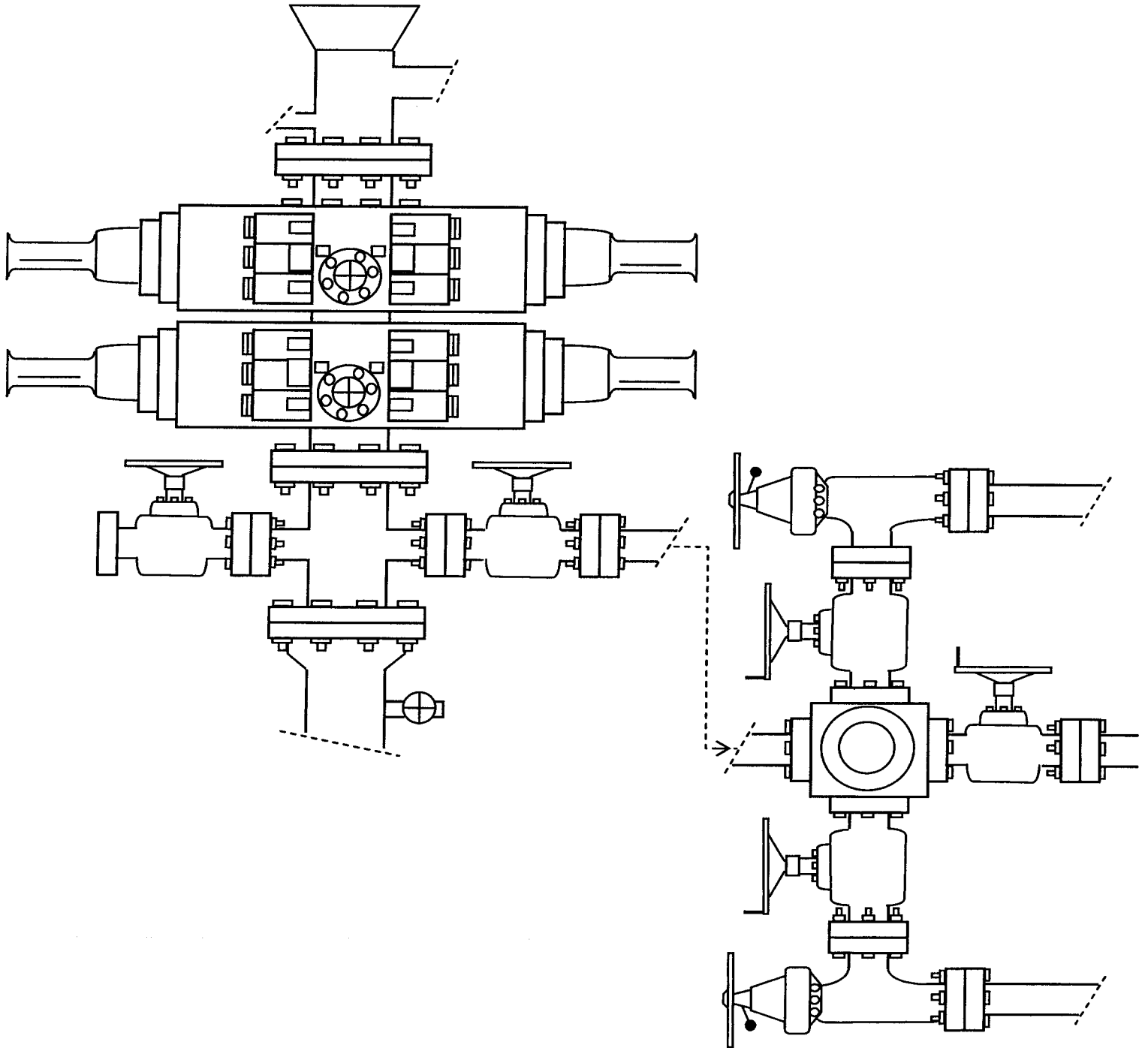


EXHIBIT C

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/22/2008

API NO. ASSIGNED: 43-013-34038

WELL NAME: GB II FED S-34-8-17

OPERATOR: NEWFIELD PRODUCTION (N2695)

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWSE 34 080S 170E

SURFACE: 1899 FSL 1981 FEL

BOTTOM: 1250 FSL 1330 FEL

COUNTY: DUCHESNE

LATITUDE: 40.07249 LONGITUDE: -109.9896

UTM SURF EASTINGS: 586156 NORTHINGS: 4436082

FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering | | |
| Geology | | |
| Surface | | |

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-79017

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

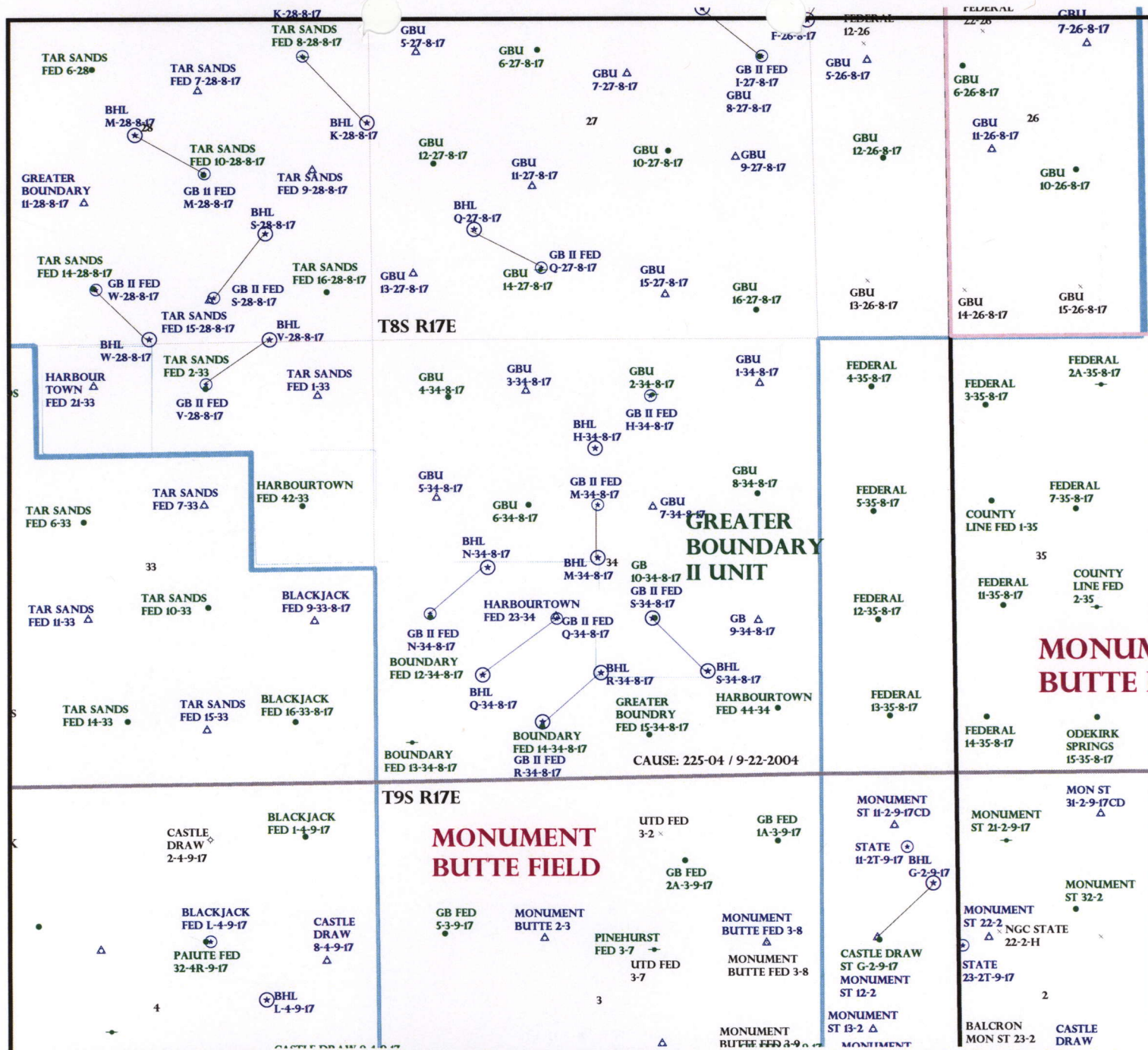
- ☒ Plat
- ☒ Bond: Fed[] Ind[2] Sta[] Fee[]
(No. WYB000493)
- ☒ Potash (Y/N)
- ☒ Oil Shale 190-5 (B) or 190-3 or 190-13
- ☒ Water Permit
(No. 43-10136)
- ☒ RDCC Review (Y/N)
(Date:)
- ☒ Fee Surf Agreement (Y/N)
- ☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: GREATER BOUNDARY II (GR)
- ☐ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
Board Cause No: 225-04
Eff Date: 9-22-2004
Siting: Suspends General Siting
- ☒ R649-3-11. Directional Drill

COMMENTS: Sup. Secret h'w

STIPULATIONS: 1-Federal Approval



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 34 T.8S R. 17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 225-04 / 9-22-2004

Wells Status

- ⊗ GAS INJECTION
- ⊗ GAS STORAGE
- ⊗ LOCATION ABANDONED
- ⊗ NEW LOCATION
- ⊗ PLUGGED & ABANDONED
- ⊗ PRODUCING GAS
- PRODUCING OIL
- ⊗ SHUT-IN GAS
- ⊗ SHUT-IN OIL
- ⊗ TEMP. ABANDONED
- TEST WELL
- △ WATER INJECTION
- △ WATER SUPPLY
- ⊗ WATER DISPOSAL
- ⊗ DRILLING

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED



OIL, GAS & MINING



PREPARED BY: DIANA MASON
DATE: 22-JULY-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

July 22, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 Plan of Development Greater Boundary Unit,
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Greater Boundary Unit, Duchesne County, Utah.

| API # | WELL NAME | LOCATION |
|-------|-----------|----------|
|-------|-----------|----------|

(Proposed PZ Green River)

43-013-34038 GB II Fed S-34-8-17 Sec 34 T08S R17E 1899 FSL 1981 FEL
BHL Sec 34 T08S R17E 1250 FSL 1330 FEL

43-013-34039 GB II Fed R-34-8-17 Sec 34 T08S R17E 0676 FSL 1962 FWL
BHL Sec 34 T08S R17E 1255 FSL 2600 FEL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Greater Boundary Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron



July 23, 2008

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Greater Boundary II Federal S-34-8-17
Greater Boundary II Unit
UTU-77098X
Surface Hole: T8S R17E, Section 34: NWSE
1899' FSL 1981' FEL
Bottom Hole: T8S R17E, Section 34
1250' FSL 1330' FEL
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated July 15, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Greater Boundary II Unit UTU-77098X. Newfield certifies that it is the Greater Boundary II Unit Operator and all lands within 460 feet of the entire directional well bore are within the Greater Boundary II Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland
Land Associate

RECEIVED

JUL 25 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

| | | | |
|---|--|---|-----------------|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. UTU-79017 | |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name N/A | |
| 2. Name of Operator Newfield Production Company | | 7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit | |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | | 8. Lease Name and Well No. Greater Boundary II Federal S-34-8-17 | |
| 3b. Phone No. (include area code) (435) 646-3721 | | 9. API Well No. | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SE 1899' FSL 1981' FEL At proposed prod. zone 1250' FSL 1330' FEL | | 10. Field and Pool, or Exploratory Monument Butte | |
| 14. Distance in miles and direction from nearest town or post office* Approximately 15.7 miles southeast of Myton, Utah | | 11. Sec., T., R., M., or Blk. and Survey or Area Sec. 34, T8S R17E | |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 10' f/se, 1330' f/unit | | 12. County or Parish Duchesne | 13. State UT |
| 16. No. of Acres in lease 160.00 | | 17. Spacing Unit dedicated to this well 20 Acres | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1490' | | 20. BLM/BIA Bond No. on file WYB000493 | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5059' GL | | 22. Approximate date work will start* 4th Quarter 2008 | |
| | | 23. Estimated duration Approximately seven (7) days from spud to rig release. | |
| 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: | | | |
| 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be required by the authorized officer. | |
| 25. Signature  | | Name (Printed/Typed) Mandie Crozier | |
| Title Regulatory Specialist | | Date 7/15/08 | |
| Approved by (Signature) | | Name (Printed/Typed) | |
| Title | | Office | |
| Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. | | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. | | | |

*(Instructions on reverse)

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JUL 25 2008

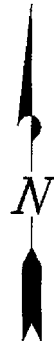
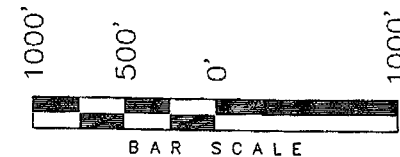
DIV. OF OIL, GAS & MINING

T8S, R17E, S.L.B.&M.

N89°59'W - 80.02 (G.L.O.)

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY
S-34-8-17, LOCATED AS SHOWN IN THE
NW 1/4 SE 1/4 OF SECTION 34, T8S,
R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD WORK OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W.

REGISTERED LAND SURVEYOR
REGISTRATION No. 12037
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

DATE SURVEYED:

5-2-08

DATE DRAWN:

5-7-08

REVISÉ:

SURVEYED BY: T.H.

DRAWN BY: M.W.

SCALE: 1" = 1000'

NO°02'W (G.L.O.)

$N00^{\circ}01'46''W - 2647.86' (Meas.)$

$N00^{\circ}00'32''E - 2637.16' (Meas.)$

N89
1910
Brass Cap

1910
Brass Cap

1910
Brass Cap

N89
1910
Brass Cap

1910
Brass Cop

1910
Brass Cap

1910
Brass Cap

N89°58'E G.L.O. (Basis of Bearings)

2642.39' (Measured) N89°58'E (G.L.O.)

N89°20'32"E - 2638.74' (Meas.)

N89°58'E (G.L.O.)

WELL LOCATION:
GREATER BOUNDARY S-34-8-17
ELEV. EXIST. GRADED GROUND = 5059'

34

Top
of Hole


DRILLING
WINDOW

1990,

150

133
Bottom
of Hole

GREATER BOUNDARY S-34-8-17
(Surface Location) NAD 83
LATITUDE = 40° 04' 20.71"
LONGITUDE = 109° 59' 25.14"

 = SECTION CORNERS LOCATED

BASIS OF ELEV;

U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 31, 2008

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

Re: Greater Boundary II Federal S-34-8-17 Well, Surface Location 1899' FSL, 1981' FEL,
NW SE, Sec. 34, T. 8 South, R. 17 East, Bottom Location 1250' FSL, 1330' FEL,
SE SE, Sec. 34, T. 8 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34038.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal Office

Operator: Newfield Production Company
Well Name & Number Greater Boundary II Federal S-34-8-17
API Number: 43-013-34038
Lease: UTU-79017

Surface Location: NW SE Sec. 34 T. 8 South R. 17 East
Bottom Location: SE SE Sec. 34 T. 8 South R. 17 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Spud
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig
Name/# Ross Rig # 24 Submitted By Alvin
Nielsen Phone Number 435-823-
7468
Well Name/Number Greater Boundary II Fed S-34-8-
17
Qtr/Qtr NW/SE Section 34 Township 8S
Range 17E
Lease Serial Number UTU
79017
API Number 43-013-
34038

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 12/18/08 9:00 AM ☒
PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 12/18/08 3:00 AM ☐
PM ☒

BOPE

☐ Initial BOPE test at surface casing point

- ☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Ross Rig #24 spud the Greater Boundary II Fed S-34-8-17 @ 9:00 AM on 12/18/08 & should run casing at 3:00 PM on 12/18/08.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**
ADDRESS: **RT. 3 BOX 3630**
MYTON, UT 84052

OPERATOR ACCT. NO. **N2695**

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION | | | | COUNTY | SPUD DATE | EFFECTIVE DATE |
|---|--------------------|----------------|------------|--|---------------|----|----|-----|----------|------------|----------------|
| | | | | | QQ | SC | TP | RG | | | |
| WELL 4 COMMENTS: | | | | | | | | | | | |
| B | 99999 | 12391 | 4301334038 | GREATER BOUNDARY II FEDERAL S-34-8-17 | NWSE | 34 | 8S | 17E | DUCHESNE | 12/18/2008 | 12/30/08 |
| GRPV BHL = SESE | | | | | | | | | | | |
| B | 99999 | 11492 | 4301333811 | JONAH FEDERAL L-14-9-16 | SENE | 14 | 9S | 16E | DUCHESNE | 12/18/2008 | 12/30/08 |
| GRPV Plugged Rig Skid # 43-013-34164 (see 12/23 submission) | | | | | | | | | | | |
| A | 99999 | 17252 | 4304739628 | FEDERAL 5-28-9-18 | SWNW | 28 | 9S | 18E | UINTAH | 12/15/2008 | 12/30/08 |
| GRPV | | | | | | | | | | | |
| WELL 5 COMMENTS: | | | | | | | | | | | |
| WELL 5 COMMENTS: | | | | | | | | | | | |

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

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DEC 22 2008
DIV. OF OIL, GAS & MINING

Signature *[Signature]* **Jenri Park**
Production Clerk
Date **12/19/08**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435 646 3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 34 T8S R17E

5. Lease Serial No.

UTU-79017

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II S-34-8-17

9. API Well No.

4301334038

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Spud Notice |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12/18/08 MIRU Ross # 24. Spud well @ 9:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 324.72'KB. On 12/22/08 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Jim Smith

Signature

Title

Drilling Foreman

Date

12/26/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

RECEIVED

JAN 06 2009

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 324.72

| | | | |
|----------------------------|----------------|-----------|---------------|
| LAST CASING | <u>8 5/8"</u> | SET AT | <u>324.72</u> |
| DATUM | <u>12</u> | | |
| DATUM TO CUT OFF CASING | | <u>12</u> | |
| DATUM TO BRADENHEAD FLANGE | | | <u>12</u> |
| TD DRILLER | <u>320</u> | LOGC | <u>320</u> |
| HOLE SIZE | <u>12 1/4"</u> | | |

OPERATOR Newfield Exploration Company
WELL GRTR BNDRY II S-34-8-17
FIELD/PROSPECT MB
CONTRACTOR & RIG # Ross # 24

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
|----------------------------|--------|---------------------------|------------|------|---|-------|---------------|
| 1 | | well head | | | | | 0.95 |
| 1 | | guide shoe | | | | | 0.9 |
| 7 | 8 5/8" | csg | 24 | J-55 | LTC | A | 312.87 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| CASING INVENTORY BAL. | | | FEET | JTS | TOTAL LENGTH OF STRING | | 314.72 |
| TOTAL LENGTH OF STRING | | | 314.72 | 7 | LESS CUT OFF PIECE | | 2 |
| LESS NON CSG. ITEMS | | | 1.85 | | PLUS DATUM TO T/CUT OFF CSG | | 12 |
| PLUS FULL JTS. LEFT OUT | | | 0 | 0 | CASING SET DEPTH | | 324.72 |
| TOTAL | | | 312.87 | 7 | } COMPARE | | |
| TOTAL CSG. DEL. (W/O THRS) | | | 312.87 | 7 | | | |
| TIMING | | | | | GOOD CIRC THRU JOB _____ Yes Bbls CMT CIRC TO SURFACE _____ 5 RECIPROCATED PIP _____ No BUMPED PLUG TO _____ 172 | | |
| BEGIN RUN CSG. | Spud | 9:00 AM | 12/18/2008 | | | | |
| CSG. IN HOLE | | 5:00 PM | 12/18/2008 | | | | |
| BEGIN CIRC | | 10:41 AM | 12/22/2008 | | | | |
| BEGIN PUMP CMT | | 10:47 AM | 12/22/2008 | | | | |
| BEGIN DSPL. CMT | | 11:03 AM | 12/22/2008 | | | | |
| PLUG DOWN | | 11:08 AM | 12/22/2008 | | | | |

COMPANY REPRESENTATIVE Jim Smith DATE 12/22/2008

RECEIVED
VERNAL FIELD OFFICE

2008 JUL 21 PM 12:39

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

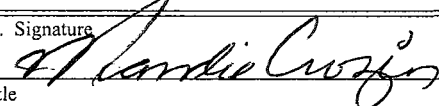
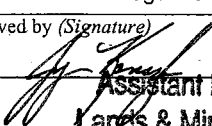
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | | |
|--|--|--|-----------------|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. UTU-79017 | |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name N/A | |
| 2. Name of Operator Newfield Production Company | | 7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit | |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | | 8. Lease Name and Well No. Greater Boundary II Federal S-34-8-17 | |
| 3b. Phone No. (include area code) (435) 646-3721 | | 9. API Well No. 43 DL3 34038 | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SE 1899' FSL 1981' FEL At proposed prod. zone 1250' FSL 1330' FEL SWSE | | 10. Field and Pool, or Exploratory Monument Butte | |
| 14. Distance in miles and direction from nearest town or post office* Approximately 15.7 miles southeast of Myton, Utah | | 11. Sec., T., R., M., or Blk. and Survey or Area Sec. 34, T8S R17E | |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 10' f/lse, 1330' f/unit | | 12. County or Parish Duchesne | 13. State UT |
| 16. No. of Acres in lease 160.00 | | 17. Spacing Unit dedicated to this well 20 Acres | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1490' | | 20. BLM/BIA Bond No. on file WYB000493 | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5059' GL | | 22. Approximate date work will start* 4th Quarter 2008 | |
| | | 23. Estimated duration Approximately seven (7) days from spud to rig release. | |
| 24. Attachments | | | |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

| | | |
|--|--|---------------------|
| 25. Signature  | Name (Printed/Typed) Mandie Crozier | Date 7/15/08 |
| Title Regulatory Specialist | | |
| Approved by (Signature)  | Name (Printed/Typed) Steve Sanchez | Date SEP 03 2008 |
| Title Assistant Field Manager Lands & Mineral Resources | | |

VERNAL FIELD OFFICE

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

NOTICE OF APPROVAL

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

SEP 10 2008

DIV. OF OIL, GAS & MINING

NOS 052708

AFMSS# 08M002074

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company **Location:** NWSE, Sec. 34, T8S, R17E (S)
SWSE, Sec. 34, T8S, R17E (B)
Well No: Greater Boundary II Fed S-34-8-17 **Lease No:** UTU-79017
API No: 43-013-34038 **Agreement:** Greater Boundary II Unit

| Title | Name | Office Phone Number | Cell Phone Number |
|-----------------------------------|-----------------|---------------------|-------------------|
| Petroleum Engineer: | Matt Baker | (435) 781-4490 | (435) 828-4470 |
| Petroleum Engineer: | Michael Lee | (435) 781-4432 | (435) 828-7875 |
| Petroleum Engineer: | James Ashley | (435) 781-4470 | (435) 828-7874 |
| Petroleum Engineer: | Ryan Angus | (435) 781-4430 | (435) 828-7368 |
| Supervisory Petroleum Technician: | Jamie Sparger | (435) 781-4502 | (435) 828-3913 |
| Supervisory NRS: | Karl Wright | (435) 781-4484 | (435) 828-7381 |
| NRS/Enviro Scientist: | Holly Villa | (435) 781-4404 | (435) 828-3544 |
| NRS/Enviro Scientist: | James Hereford | (435) 781-3412 | |
| NRS/Enviro Scientist: | Chuck Macdonald | (435) 781-4441 | (435) 828-7481 |
| NRS/Enviro Scientist: | Dan Emmett | (435) 781-3414 | |
| NRS/Enviro Scientist: | Paul Percival | (435) 781-4493 | |
| NRS/Enviro Scientist: | Michael Cutler | (435) 781-3401 | (435) 828-3546 |
| NRS/Enviro Scientist: | Anna Figueroa | (435) 781-3407 | (435) 828-3548 |
| NRS/Enviro Scientist: | Verlyn Pindell | (435) 781-3402 | (435) 828-3547 |
| NRS/Enviro Scientist: | Darren Williams | (435) 781-4447 | (435) 828-4029 |
| NRS/Enviro Scientist: | Nathan Packer | (435) 781-3405 | (435) 828-3545 |

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

| | |
|---|--|
| Location Construction (Notify Environmental Scientist) | - Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion (Notify Environmental Scientist) | - Prior to moving on the drilling rig. |
| Spud Notice (Notify Petroleum Engineer) | - Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing (Notify Supv. Petroleum Tech.) | - Twenty-Four (24) hours prior to running casing and cementing all casing strings. |
| BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.) | - Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice (Notify Petroleum Engineer) | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

STIPULATIONS:

There are two Golden eagle nests within 0.5 miles south and 0.5 miles southwest of the proposed location. With this occurrence there will be a timing restriction to minimize disturbance for Golden eagle nesting from February 1 – July 15.

Lease Notices from RMP:

The lessee/operator is given notice the area has been identified as containing Ferruginous hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous hawk and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

The lessee/operator is given notice the area has been identified as containing Golden eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden eagle and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

Comments:

No surface occupancy or use is allowed (does not apply to casual use) within ½ mile of Golden eagle nests which have been active within the past two years. This restriction will not apply to maintenance and operation of existing programs and facilities. It will not apply if impacts can be mitigated through other management actions or site specific analysis of terrain features.

GIS data shows the project area is within Mountain plover nesting habitat. Because the proposed location is going to be directional drilled from an existing location and no new disturbance will be required Mountain plover timing restrictions were not applied.

If it is anticipated that construction or drilling will occur during the given timing restrictions for any wildlife, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).

Follow-up Actions and/or Recommendations:

Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) shall require additional surveys and clearances.

CONDITIONS OF APPROVAL:

All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.

All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.

A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.

The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road. No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.

Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.

Pipelines will be buried at all major drainage crossings.

Prevent fill and stock piles from entering drainages.

To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.

The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.

When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.

Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.

Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.

If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

Interim Reclamation:

The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be **seeded using a rangeland drill**. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1st until snow or ground is frozen) with the following seed mix:

Seed mix:

| Common name | Latin name | lbs/acre | Recommended seed planting depth |
|---------------------|-------------------------------|----------|---------------------------------|
| Squirreltail grass | <i>Elymus elymoides</i> | 3.0 | ¼ - ½" |
| Siberian wheatgrass | <i>Agropyron fragile</i> | 1.0 | ½" |
| Shadscale saltbush | <i>Atriplex confertifolia</i> | 0.50 | ½" |
| Four-wing saltbush | <i>Atriplex canescens</i> | 0.50 | ½" |
| Gardner's saltbush | <i>Atriplex gardneri</i> | 0.50 | ½" |
| Scarlet globemallow | <i>Sphaeralcea coccinea</i> | 0.10 | ⅛ - ¼" |

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

Final reclamation:

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be re-contoured to natural topography, topsoil shall be re-spread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.

The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be re-contoured and the topsoil re-spread, and the area shall be seeded in the same manner as the location topsoil.

Once the location is plugged and abandoned, it shall be re-contoured to natural topology, topsoil shall be re-spread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

All well facilities not regulated by OSHA will be painted Carlsbad Canyon.

All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.

Notify the Authorized Officer 48 hours prior to surface disturbing activities.

***DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC DOWNHOLE COAs:

- **Newfield Production Co. shall adhere to all referenced requirements in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders. A complete angular deviation and directional survey report shall be submitted to the Vernal BLM field office within 30 days following the completion of the well.**

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ $\frac{1}{4}$, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M. or Survey Description)

Section 34 T8S R17E

5. Lease Serial No.

USA UTU-79017

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II S-34-8-17

9. API Well No.

4301334038

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|--|---|--|---|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug & Abandon | <input type="checkbox"/> Temporarily Abandon | Weekly Status Report |
| | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/3/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,261' & a TVD of 6150'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 160 jt's of 5.5 J-55, 15.5# csgn. Set @ 6238.81' / KB. Cement with 275 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With 42 bbls cement returned to pit. Nipple down Bop's. Drop slips @96,000 #'s tension. Release rig 11:30 PM 1/9/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

Alvin Nielsen

Title

Drilling Foreman

Date

01/11/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
JAN 22 2009

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET @ 6238.81

LAST CASING: 8-5/8" SET @ 324.72
 DATUM (KB) 12
 DATUM TO CUT OFF CASING 12
 DATUM TO BRADENHEAD FLANGE 12
 DRILLER TD 6261 LOGGER TD 6255
 HOLE SIZE 7-7/8" TOP FLOAT COLLAR @ 6200.53
 TOP SHORT JT @ 3964.87

OPERATOR: Newfield Production Company
 WELL: GBF S-34-8-17
 FIELD/PROSPECT: Monument Butte
 CONTRACTOR & RIG #: NDSI # 2
 TVD= 6150'

Short jt 5.35

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
|--------|--------|---------------------------|---------|------|--------|-------|---------|
| 1 | | Landing Jt | 15.5# | J-55 | 8rd | A | 14 |
| 160 | 5 1/2" | LT&C CASING | 15.5# | J-55 | 8rd | A | 6188.53 |
| 1 | 5 1/2" | FLOAT COLLAR | - | - | - | A | 0.6 |
| 1 | 5 1/2" | LT&C CASING | 15.5# | J-55 | 8rd | A | 37.03 |
| 1 | 5 1/2" | GUIDE SHOE | | | | | 0.65 |

TOTAL LENGTH OF STRING

6240.81

(-) LANDING JT

14

(-) AMOUNT CUTOFF

0

(+) KB ELEVATION

12

CASING SET DEPTH

6238.81

COMPARE (SHOULD BE EQUAL)

| CASING INVENTORY BAL. | FEET | JTS |
|-----------------------------|---------|-----|
| TOTAL LENGTH OF STRING | 6240.81 | 161 |
| LESS NON CSG. ITEMS | 15.25 | - |
| PLUS FULL JTS. LEFT OUT | 152.68 | 4 |
| TOTAL | 6378.24 | 165 |
| TOTAL CSG. DEL. (W/O THRDS) | 6378.24 | 165 |

| CEMENT DATA | | TIME | DATE |
|-----------------|--|----------|----------|
| BEGIN RUN CSG. | | 10:30 AM | 1/9/2009 |
| CSG. IN HOLE | | 3:00 PM | 1/9/2009 |
| BEGIN CIRC | | 3:00 PM | 1/9/2009 |
| BEGIN PUMP CMT | | 4:53 PM | 1/9/2009 |
| BEGIN DSPL. CMT | | 5:59 PM | 1/9/2009 |
| PLUG DOWN | | 6:31 PM | 1/9/2009 |

GOOD CIRC THRU JOB: Yes
 Bbls CMT CIRC TO SURFACE: 42
 RECIPROCATED PIPE: Yes
 DID BACK PRES. VALVE HOLD ? Yes
 BUMPED PLUG TO: 1350 PSI

CEMENT USED

| CEMENT COMPANY: | | BJ |
|---|------|---|
| STAGE | # SX | CEMENT TYPE & ADDITIVES |
| 1 (lead) | 275 | Premium Lite II cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 5 lbs/sack CSE-2 + 204.7% Fresh Water |
| 2 (tail) | 400 | (50:50) Poz (Fly Ash): Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5% bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium Metasilicate + 54.7% Fresh Water |
| CENTRALIZER & SCRATCHER PLACEMENT (SHOW MAKE & SPACING) | | |
| Centralizers - Middle first, top second & third. Then every third collar for a total of 20. | | |

COMPANY REPRESENTATIVE

Alvin Nielsen

DATE 1/9/2009

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|---|--|--|
| 1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-79017 |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| 3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 | | 7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II |
| 4. LOCATION OF WELL: FOOTAGES AT SURFACE: | | 8. WELL NAME and NUMBER: GREATER BOUNDARY S-34-8-17 |
| OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 34, T8S, R17E | | 9. API NUMBER: 4301334038 |
| | | 10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE |
| | | COUNTY: DUCHESNE |
| | | STATE: UT |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|---|---|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLAIR |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 03/13/2009 | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/STOP) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: - Weekly Status Report |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 01/30/09, attached is a daily completion status report.

| | |
|---|-------------------------------|
| NAME (PLEASE PRINT) <u>Jentri Park</u> | TITLE <u>Production Clerk</u> |
| SIGNATURE  | DATE <u>03/13/2009</u> |

(This space for State use only)

RECEIVED
MAR 23 2009

DIV OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

GRTR BNDRY II S-34-8-17**12/1/2008 To 2/28/2009****1/22/2009 Day: 1****Completion**

Rigless on 1/21/2009 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6173' cement top @ 98'. Perforate stage #1. CP5 & CP4 sds @ 6049-55' & 5979-5984' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 44 shots. 148 BWTR. SIFN.

1/27/2009 Day: 2**Completion**

Rigless on 1/26/2009 - Day2a, Stage #1, CP4/CP5 sds. RU BJ Services. 100 psi on well. Frac CP4/CP5 sds w/ 32,103#'s of 20/40 sand in 477 bbls of Lightning 17 fluid. Broke @ 2647 psi. Treated w/ ave pressure of 2200 psi w/ ave rate of 23.3 BPM. ISIP 2182 psi. Leave pressure on well. 625 BWTR. See day 2b. Day 2b, Stage #2 CP1/CP2 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 15, 10' perf guns. Set plug @ 5840'. Perforate CP1 sds @ 5748-63' & CP2 sds @ 5780-90' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 100 shots. RU BJ Services. 1765 psi on well. Frac CP1/CP2 sds w/ 140,724#'s of 20/40 sand in 1008 bbls of Lightning 17 fluid. Broke @ 2204 psi. Treated w/ ave pressure of 1277 psi w/ ave rate of 23.3 BPM. ISIP 1466 psi. Leave pressure on well. 1633 BWTR. See day 2c. Day 2c, Stage #3 C/B.5 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 5', 7' perf guns. Set plug @ 5230'. Perforate C sds @ 5073-78' & B.5 sds @ 5157-64' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 1245 psi on well. Frac C/B.5 sds w/ 24,629#'s of 20/40 sand in 365 bbls of Lightning 17 fluid. Broke @ 1604 psi. Treated w/ ave pressure of 1921 psi w/ ave rate of 23.3 BPM. ISIP 1985 psi. Leave pressure on well. 1998 BWTR. See day 2d. Day 2d, Stage #4 D1/D2 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 7', 8' perf guns. Set plug @ 5010'. Perforate D1 sds @ 4903-10' & D2 sds @ 4947-55' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 60 shots. RU BJ Services. 1483 psi on well. Frac D1/D2 sds w/ 55,297#'s of 20/40 sand in 496 bbls of Lightning 17 fluid. Broke @ 2260 psi. Treated w/ ave pressure of 1800 psi w/ ave rate of 23.2 BPM. ISIP 1903 psi. Leave pressure on well. 2494 BWTR. See day 2e. Day 2e, Stage #5 DS3 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 4860'. Perforate DS3 sds @ 4832-44' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 1660 psi on well. Frac DS3 sds w/ 90,579#'s of 20/40 sand in 681 bbls of Lightning 17 fluid. Broke @ 1874 psi. Treated w/ ave pressure of 2081 psi w/ ave rate of 23.2 BPM. ISIP 2244 psi. Leave pressure on well. 3175 BWTR. See day 2f. Day 2f, Stage #6 GB6 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 9' perf gun. Set plug @ 4510'. Perforate GB6 sds @ 4437-46' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 36 shots. SWIFN.

4

1/28/2009 Day: 3**Completion**

Rigless on 1/27/2009 - Day3, Stage #6, GB6 sds. Thaw well w/ hotoiler. RU BJ Services. 1350 psi on well. Frac GB6 sds w/ 21,879#'s of 20/40 sand in 325 bbls of Lightning 17 fluid. Broke @ 3423 psi. Treated w/ ave pressure of 1890 psi w/ ave rate of 23.3 BPM. ISIP 1852 psi. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3 hrs. & died. Recovered 378 bbls. MIRU Western #1. ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. SWIFN.

1/29/2009 Day: 4**Completion**

Rigless on 1/28/2009 - Thaw well w/ hotoiler. Bleed off well. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe rack (tallying & drifting). Tag CBP @ 4510'. RU powerswivel & pump. DU CBP in 30 min. Cont. RIH w/ tbg. Tag fill @ 4708'. C/O to CBP @ 4860'. DU CBP in 14 min. Cont. RIH w/ tbg. Tag CBP @ 5010'. DU CBP in 18 min. Circulate well clean. SWIFN.

1/30/2009 Day: 5**Completion**

Rigless on 1/29/2009 - Thaw well w/ hotoiler. Bleed off well. Cont. RIH w/ tbg. Tag CBP @ 5230'. DU CBP in 21 min. Cont. RIH w/ tbg. Tag CBP @ 5840'. DU CBP in 11 min. Cont. RIH w/ tbg. Tag fill @ 6028'. C/O to PBTD @ 6201'. Circulate well clean. Pull up to 6118'. RIH w/ swab. SFL @ surface. Made 10 runs. Recovered 130 bbls. Trace of oil. No show of sand. Good show of gas. EFL @ 700'. RD swab. RIH w/ tbg. Tag PBTD @ 6201'. Circulate well clean. POOH w/ tbg. to 2605'. SWIFN.

1/31/2009 Day: 6**Completion**

Rigless on 1/30/2009 - Thaw well w/ hotoiler. Bleed off well. Cont. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC, 195 jts 2 7/8" tbg. ND BOP. Set TAC @ 6008' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 3/4" x 20' RHAC rod pump, shear coupler, 4- 1 1/2" weight bars, 237- 7/8" guided rods (8 per), 1- 4', 2' x 7/8" pony subs, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 5:00 p.m. 5 spm, 122" stroke length. Final Report.

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other: _____

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

3. Address
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)
(435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1099 fsl 1981 fel

At top prod. interval reported below

At total depth 6261'

1128 fsl 1204 fel

per HSM review

14. Date Spudded
09/18/2008

15. Date T.D. Reached
01/09/2009

16. Date Completed 10/30/2008
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
UTU-79017

6. If Indian, Allottee or Tribe Name
NA

7. Unit or CA Agreement Name and No.
Greater Boundary

8. Lease Name and Well No.
Greater Boundary S-34-8-17

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC. 34, T8S, R17E

12. County or Parish
DUCHESNE

13. State
UT

18. Total Depth: MD 6261'
TVD 0' 6151'

19. Plug Back T.D.: MD 6221'
TVD 6111'

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cement Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|-------------|--------------------|-----------------------------|-------------------|-------------|---------------|
| 12-1/4" | 8-5/8" J-55 | 24# | | 324' | | 160 CLASS G | | | |
| 7-7/8" | 5-1/2" J-55 | 15.5# | | 6238' | | 275 PRIMLITE | | 98' | |
| | | | | | | 400 50/50 POZ | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2-7/8" | EOT@ 6075' | TA @ 6008' | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------|-----|--------|------------------------|------|-----------|--------------|
| A) GRRV | | | (CP5 & CP4) 5979-6055' | .49" | 4 | 44 |
| B) | | | (CP1&CP2) 5748-5790 | .49" | 4 | 100 |
| C) | | | (C&B.5) 5073-5164' | .49" | 4 | 48 |
| D) | | | (D1 & D2) 4903-5955' | .49" | 4 | 60 |

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 5979-6055' | Frac w/ 32103# of 20/40 snd 477 bbls fluid |
| 5748-5790' | Frac w/ 140724# 20/40 snd 1008 bbls fluid |
| 5073-5164' | Frac w/ 24629# 20/40 snd 365 bbls fluid |
| 4903-4955' | Frac w/ 55297# 20/40 snd 496 bbls fluid |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|---------------------------------|
| 10/30/08 | 11/04/08 | 24 | → | 10 | 5 | 10 | | | 2-1/2" x 1-3/4" x 20' RHAC Pump |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | PRODUCING | |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| | | | → | | | | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| | | | → | | | | | | |

*(See instructions and spaces for additional data on page 2)

RECEIVED
MAR 09 2009

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top |
|-----------|-----|--------|------------------------------|--|----------------|
| | | | | | Meas. Depth |
| | | | | GARDEN GULCH MRK GARDEN GULCH 1 | 3884' 4072' |
| | | | | GARDEN GULCH 2 POINT 3 | 4192' 4453' |
| | | | | X MRKR Y MRKR | 4696' 4727' |
| | | | | DOUGALS CREEK MRK BI CARBONATE MRK | 48700' 5126 |
| | | | | B LIMESTON MRK CASTLE PEAK | 5274' 5697' |
| | | | | BASAL CARBONATE TOTAL DEPTH (LOGGERS) | 6128' 6255' |

32. Additional remarks (include plugging procedure):

(DS3) 4832-4844' .49" 4/48 Frac w/ 90579#s of 20/40 sand in 681 bbls of fluid
(GB^) 4437-4446' .49" 4/36 Frac w/ 21879#s of 20/40 sand in 325 bbls of fluid

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Kathy Chapman

Title Office Manager

Signature

Date 02/26/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



**Scientific
Drilling**

Directional Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

| | |
|-----------------|-----------------------------------|
| Operator | <u>Newfield Exploration Co.</u> |
| Well Name & No. | <u>Greater Boundary S-34-8-17</u> |
| County & State | <u>Duchesne County, UT</u> |
| SDI Job No. | <u>42DEF0901001</u> |
| Rig | <u>NDSI 2</u> |

I, Julie Cruse, having personal knowledge of all the facts, hereby
certify that the attached directional survey run from a measured depth of 352 feet to a
measured depth of 6261 feet is true and correct as determined from all available records.

Julie Cruse
Signature

12-Jan-09
Date

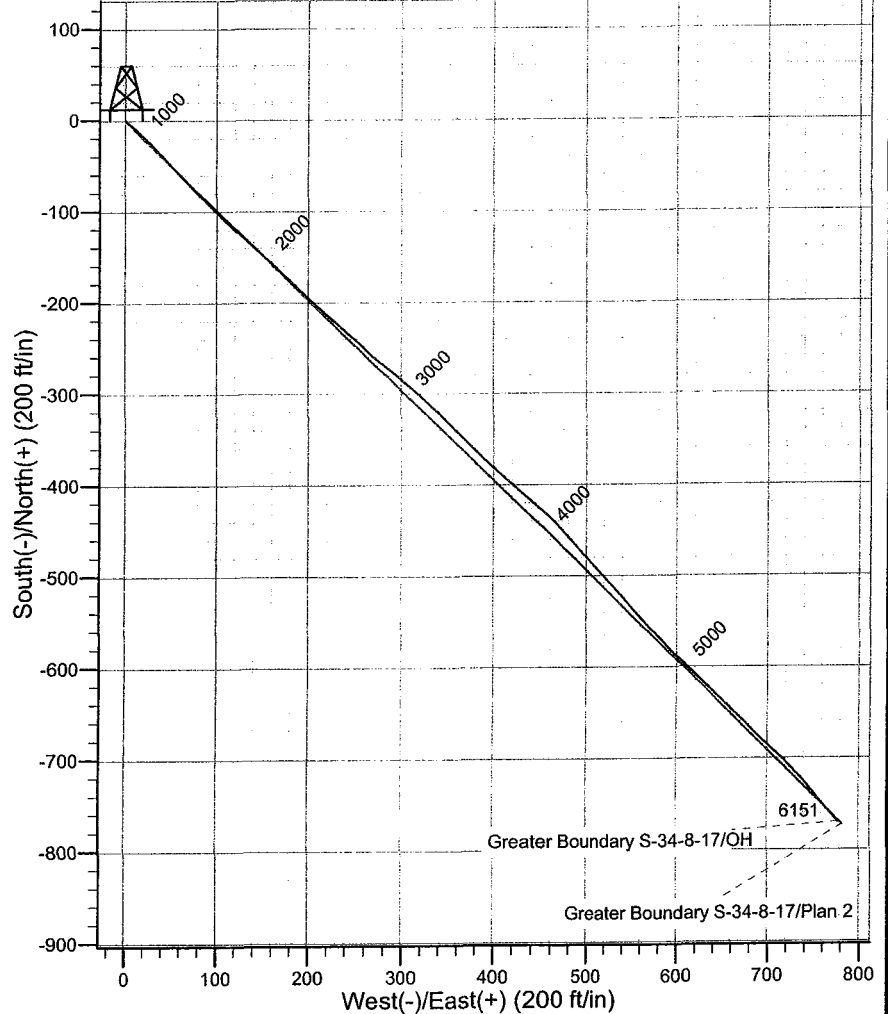
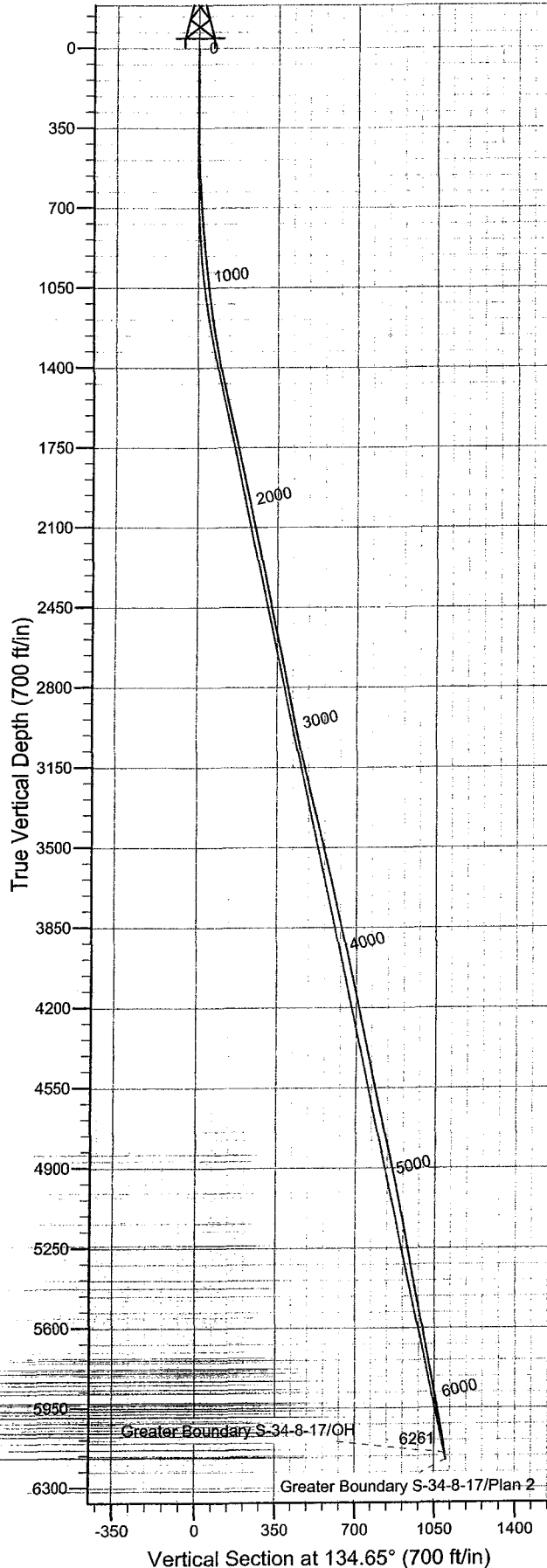
Julie Cruse
Rockies Region Engineer
Scientific Drilling - Rocky Mountain District



Scientific Drilling
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Newfield Exploration Co.



WELL DETAILS: Greater Boundary S-34-8-17

| +N/-S | +E/-W | Ground Level: GL 5059' & RKB 12' @ 5071.00ft | Latitude | Longitude |
|-------|-------|--|-----------------|-------------------|
| 0.00 | 0.00 | Northing: 7198682.39 Easting: 2062871.88 | 40° 4' 20.710 N | 109° 59' 25.140 W |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Greater Boundary S-34-8-17, True North
Vertical (TVD) Reference: GL 5059' & RKB 12' @ 5071.00ft
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5059' & RKB 12' @ 5071.00ft
Calculation Method: Minimum Curvature
Local North: True
Location:

PROJECT DETAILS: Duchesne County, UT NAD83 UTC

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

Design: OH (Greater Boundary S-34-8-17/OH)

Created By: Gregg Detweiler Date: 2009-01-12



Newfield Exploration Co.

Duchesne County, UT NAD83 UTC

Greater Boundary

Greater Boundary S-34-8-17

OH

Design: OH

Standard Survey Report

12 January, 2009



Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User DB

| | | | |
|--------------------|-------------------------------|----------------------|----------------|
| Project | Duchesne County, UT NAD83 UTC | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Utah Central Zone | | |

| | | | | |
|------------------------------|------------------|---------------------|-----------------|------------------------------------|
| Site | Greater Boundary | | | |
| Site Position: | | Northing: | 7,202,495.58 ft | Latitude: 40° 4' 59.260 N |
| From: | Lat/Long | Easting: | 2,057,628.96 ft | Longitude: 110° 0' 31.760 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | in | Grid Convergence: 0.96 ° |

| | | | | |
|-----------------------------|---|----------------------------|----------------------------------|-------------------------------------|
| Well | Greater Boundary S-34-8-17, 1899' FSL 1981' FEL Sec 34 T8S R17E | | | |
| Well Position | +N/-S | 0.00 ft | Northing: 7,198,682.39 ft | Latitude: 40° 4' 20.710 N |
| | +E/-W | 0.00 ft | Easting: 2,062,871.88 ft | Longitude: 109° 59' 25.140 W |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | ft | Ground Level: 5,059.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 2008-12-31 | 11.59 | 65.90 | 52,569 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | OH | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 134.65 | |

| | | | | | |
|-----------------------|------------------------|------------------------------|------------------|--------------------|--|
| Survey Program | Date 2009-01-12 | | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 352.00 | 6,261.00 | Survey #1 - 7 7/8" Hole (OH) | MWD | MWD - Standard | |

| Survey | | | | | | | | | |
|-------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 352.00 | 0.47 | 164.14 | 352.00 | -1.39 | 0.39 | 1.26 | 0.13 | 0.13 | 0.00 |
| First MWD Survey | | | | | | | | | |
| 383.00 | 0.48 | 124.23 | 383.00 | -1.58 | 0.54 | 1.50 | 1.05 | 0.03 | -128.74 |
| 413.00 | 0.56 | 142.36 | 412.99 | -1.77 | 0.73 | 1.76 | 0.61 | 0.27 | 60.43 |
| 444.00 | 1.09 | 116.99 | 443.99 | -2.02 | 1.09 | 2.20 | 2.04 | 1.71 | 81.84 |
| 475.00 | 1.50 | 121.73 | 474.98 | -2.37 | 1.69 | 2.87 | 1.37 | 1.32 | 15.29 |
| 505.00 | 1.54 | 129.41 | 504.97 | -2.83 | 2.34 | 3.66 | 0.69 | 0.13 | 25.60 |
| 536.00 | 1.87 | 128.86 | 535.96 | -3.42 | 3.05 | 4.57 | 1.07 | 1.06 | -1.77 |
| 567.00 | 2.16 | 128.34 | 566.94 | -4.10 | 3.91 | 5.66 | 0.94 | 0.94 | -1.68 |
| 597.00 | 2.49 | 129.12 | 596.91 | -4.86 | 4.86 | 6.87 | 1.11 | 1.10 | 2.60 |
| 628.00 | 3.12 | 131.79 | 627.88 | -5.84 | 6.01 | 8.38 | 2.07 | 2.03 | 8.61 |
| 658.00 | 3.49 | 128.56 | 657.83 | -6.96 | 7.33 | 10.10 | 1.38 | 1.23 | -10.77 |



Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User DB

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 689.00 | 3.84 | 130.17 | 688.76 | -8.22 | 8.86 | 12.08 | 1.18 | 1.13 | 5.19 |
| 720.00 | 4.04 | 130.56 | 719.69 | -9.60 | 10.48 | 14.20 | 0.65 | 0.65 | 1.26 |
| 750.00 | 4.40 | 134.28 | 749.61 | -11.09 | 12.11 | 16.41 | 1.51 | 1.20 | 12.40 |
| 781.00 | 4.66 | 132.01 | 780.51 | -12.76 | 13.90 | 18.85 | 1.02 | 0.84 | -7.32 |
| 812.00 | 5.15 | 131.56 | 811.40 | -14.52 | 15.87 | 21.50 | 1.59 | 1.58 | -1.45 |
| 842.00 | 5.38 | 133.57 | 841.27 | -16.39 | 17.90 | 24.25 | 0.98 | 0.77 | 6.70 |
| 873.00 | 5.36 | 130.90 | 872.14 | -18.34 | 20.05 | 27.15 | 0.81 | -0.06 | -8.61 |
| 904.00 | 5.32 | 135.64 | 903.00 | -20.31 | 22.15 | 30.03 | 1.43 | -0.13 | 15.29 |
| 935.00 | 5.57 | 134.27 | 933.86 | -22.39 | 24.23 | 32.97 | 0.91 | 0.81 | -4.42 |
| 967.00 | 5.85 | 135.33 | 965.70 | -24.63 | 26.49 | 36.16 | 0.93 | 0.87 | 3.31 |
| 999.00 | 6.07 | 134.37 | 997.53 | -26.98 | 28.84 | 39.48 | 0.75 | 0.69 | -3.00 |
| 1,030.00 | 6.25 | 134.67 | 1,028.35 | -29.31 | 31.22 | 42.80 | 0.59 | 0.58 | 0.97 |
| 1,062.00 | 6.40 | 137.60 | 1,060.16 | -31.85 | 33.66 | 46.33 | 1.11 | 0.47 | 9.16 |
| 1,094.00 | 6.91 | 136.24 | 1,091.94 | -34.56 | 36.19 | 50.03 | 1.67 | 1.59 | -4.25 |
| 1,126.00 | 7.28 | 135.77 | 1,123.70 | -37.40 | 38.94 | 53.98 | 1.17 | 1.16 | -1.47 |
| 1,157.00 | 7.59 | 136.51 | 1,154.43 | -40.29 | 41.72 | 57.99 | 1.05 | 1.00 | 2.39 |
| 1,189.00 | 8.08 | 136.44 | 1,186.14 | -43.46 | 44.72 | 62.35 | 1.53 | 1.53 | -0.22 |
| 1,221.00 | 8.43 | 137.68 | 1,217.80 | -46.82 | 47.85 | 66.94 | 1.23 | 1.09 | 3.87 |
| 1,252.00 | 9.01 | 136.82 | 1,248.45 | -50.27 | 51.04 | 71.64 | 1.92 | 1.87 | -2.77 |
| 1,284.00 | 9.49 | 135.93 | 1,280.03 | -53.99 | 54.59 | 76.78 | 1.57 | 1.50 | -2.78 |
| 1,316.00 | 9.71 | 135.83 | 1,311.58 | -57.83 | 58.30 | 82.12 | 0.69 | 0.69 | -0.31 |
| 1,348.00 | 10.27 | 137.05 | 1,343.10 | -61.85 | 62.13 | 87.66 | 1.87 | 1.75 | 3.81 |
| 1,379.00 | 10.82 | 135.95 | 1,373.57 | -65.96 | 66.03 | 93.33 | 1.89 | 1.77 | -3.55 |
| 1,411.00 | 11.22 | 136.42 | 1,404.98 | -70.38 | 70.27 | 99.45 | 1.28 | 1.25 | 1.47 |
| 1,443.00 | 11.57 | 137.02 | 1,436.35 | -74.98 | 74.60 | 105.77 | 1.15 | 1.09 | 1.87 |
| 1,473.00 | 11.88 | 137.73 | 1,465.73 | -79.47 | 78.73 | 111.86 | 1.14 | 1.03 | 2.37 |
| 1,506.00 | 12.22 | 136.67 | 1,498.00 | -84.52 | 83.41 | 118.74 | 1.23 | 1.03 | -3.21 |
| 1,538.00 | 12.49 | 136.94 | 1,529.26 | -89.51 | 88.10 | 125.58 | 0.86 | 0.84 | 0.84 |
| 1,570.00 | 12.53 | 136.13 | 1,560.50 | -94.54 | 92.87 | 132.51 | 0.56 | 0.12 | -2.53 |
| 1,601.00 | 12.65 | 135.36 | 1,590.75 | -99.38 | 97.58 | 139.26 | 0.67 | 0.39 | -2.48 |
| 1,633.00 | 12.70 | 134.41 | 1,621.97 | -104.34 | 102.56 | 146.29 | 0.67 | 0.16 | -2.97 |
| 1,665.00 | 12.89 | 133.25 | 1,653.18 | -109.24 | 107.67 | 153.37 | 1.00 | 0.59 | -3.62 |
| 1,696.00 | 12.95 | 134.21 | 1,683.39 | -114.03 | 112.68 | 160.30 | 0.72 | 0.19 | 3.10 |
| 1,728.00 | 12.94 | 132.14 | 1,714.58 | -118.94 | 117.90 | 167.47 | 1.45 | -0.03 | -6.47 |
| 1,760.00 | 13.03 | 131.50 | 1,745.76 | -123.73 | 123.26 | 174.65 | 0.53 | 0.28 | -2.00 |
| 1,792.00 | 12.95 | 132.90 | 1,776.94 | -128.56 | 128.59 | 181.83 | 1.01 | -0.25 | 4.37 |
| 1,823.00 | 12.93 | 132.48 | 1,807.16 | -133.27 | 133.69 | 188.77 | 0.31 | -0.06 | -1.35 |
| 1,855.00 | 12.85 | 131.69 | 1,838.35 | -138.06 | 138.99 | 195.90 | 0.60 | -0.25 | -2.47 |
| 1,887.00 | 12.87 | 131.83 | 1,869.55 | -142.80 | 144.30 | 203.02 | 0.12 | 0.06 | 0.44 |
| 1,918.00 | 12.84 | 133.06 | 1,899.77 | -147.45 | 149.39 | 209.91 | 0.89 | -0.10 | 3.97 |
| 1,950.00 | 12.65 | 133.17 | 1,930.98 | -152.28 | 154.55 | 216.96 | 0.60 | -0.59 | 0.34 |
| 1,982.00 | 12.31 | 133.65 | 1,962.23 | -157.03 | 159.57 | 223.88 | 1.11 | -1.06 | 1.50 |
| 2,014.00 | 12.21 | 134.42 | 1,993.50 | -161.75 | 164.46 | 230.67 | 0.60 | -0.31 | 2.41 |
| 2,045.00 | 12.07 | 133.31 | 2,023.80 | -166.27 | 169.16 | 237.19 | 0.88 | -0.45 | -3.58 |
| 2,077.00 | 11.84 | 134.19 | 2,055.11 | -170.85 | 173.94 | 243.82 | 0.92 | -0.72 | 2.75 |
| 2,109.00 | 11.90 | 134.95 | 2,086.42 | -175.47 | 178.63 | 250.40 | 0.52 | 0.19 | 2.37 |
| 2,141.00 | 12.02 | 133.21 | 2,117.73 | -180.09 | 183.40 | 257.03 | 1.19 | 0.37 | -5.44 |
| 2,172.00 | 12.03 | 133.59 | 2,148.05 | -184.52 | 188.09 | 263.49 | 0.26 | 0.03 | 1.23 |
| 2,204.00 | 11.86 | 133.85 | 2,179.36 | -189.10 | 192.88 | 270.11 | 0.56 | -0.53 | 0.81 |
| 2,236.00 | 11.57 | 134.07 | 2,210.69 | -193.61 | 197.55 | 276.61 | 0.92 | -0.91 | 0.69 |
| 2,267.00 | 11.56 | 132.97 | 2,241.06 | -197.89 | 202.06 | 282.82 | 0.71 | -0.03 | -3.55 |
| 2,299.00 | 11.48 | 133.79 | 2,272.42 | -202.28 | 206.70 | 289.21 | 0.57 | -0.25 | 2.56 |
| 2,331.00 | 11.50 | 131.98 | 2,303.77 | -206.62 | 211.37 | 295.58 | 1.13 | -0.06 | 5.66 |
| 2,362.00 | 11.37 | 131.84 | 2,334.16 | -210.72 | 215.95 | 301.72 | 0.43 | -0.42 | -0.45 |



Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User DB

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|--------------|--------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 2,394.00 | 10.94 | 131.29 | 2,365.55 | -214.83 | 220.58 | 307.90 | 1.38 | -1.34 | -1.72 |
| 2,426.00 | 10.89 | 131.07 | 2,396.98 | -218.82 | 225.14 | 313.95 | 0.20 | -0.16 | -0.69 |
| 2,458.00 | 10.96 | 131.08 | 2,428.40 | -222.80 | 229.71 | 320.00 | 0.22 | 0.22 | 0.03 |
| 2,489.00 | 11.18 | 130.72 | 2,458.82 | -226.70 | 234.21 | 325.94 | 0.74 | 0.71 | -1.16 |
| 2,521.00 | 11.94 | 132.29 | 2,490.17 | -230.95 | 239.01 | 332.34 | 2.57 | 2.37 | 4.91 |
| 2,553.00 | 12.28 | 132.15 | 2,521.46 | -235.46 | 243.98 | 339.05 | 1.07 | 1.06 | -0.44 |
| 2,585.00 | 12.26 | 133.97 | 2,552.73 | -240.11 | 248.95 | 345.85 | 1.21 | -0.06 | 5.69 |
| 2,616.00 | 12.26 | 133.24 | 2,583.02 | -244.65 | 253.72 | 352.43 | 0.50 | 0.00 | -2.35 |
| 2,648.00 | 12.44 | 133.45 | 2,614.28 | -249.34 | 258.70 | 359.27 | 0.58 | 0.56 | 0.66 |
| 2,679.00 | 12.73 | 134.20 | 2,644.53 | -254.02 | 263.57 | 366.03 | 1.07 | 0.94 | 2.42 |
| 2,711.00 | 12.76 | 132.23 | 2,675.75 | -258.85 | 268.71 | 373.08 | 1.36 | 0.09 | -6.16 |
| 2,743.00 | 12.22 | 131.85 | 2,706.99 | -263.49 | 273.85 | 380.00 | 1.71 | -1.69 | -1.19 |
| 2,775.00 | 11.79 | 129.91 | 2,738.29 | -267.85 | 278.88 | 386.64 | 1.84 | -1.34 | -6.06 |
| 2,806.00 | 11.31 | 129.30 | 2,768.66 | -271.80 | 283.66 | 392.82 | 1.60 | -1.55 | -1.97 |
| 2,838.00 | 11.23 | 128.10 | 2,800.04 | -275.71 | 288.54 | 399.04 | 0.77 | -0.25 | -3.75 |
| 2,870.00 | 11.15 | 128.95 | 2,831.44 | -279.58 | 293.40 | 405.21 | 0.57 | -0.25 | 2.66 |
| 2,901.00 | 11.24 | 130.11 | 2,861.85 | -283.41 | 298.04 | 411.21 | 0.78 | 0.29 | 3.74 |
| 2,933.00 | 11.05 | 131.55 | 2,893.24 | -287.46 | 302.72 | 417.38 | 1.05 | -0.59 | 4.50 |
| 2,965.00 | 10.96 | 130.86 | 2,924.65 | -291.48 | 307.32 | 423.48 | 0.50 | -0.28 | -2.16 |
| 2,996.00 | 11.50 | 132.38 | 2,955.06 | -295.49 | 311.83 | 429.50 | 1.99 | 1.74 | 4.90 |
| 3,028.00 | 11.84 | 133.22 | 2,986.40 | -299.89 | 316.58 | 435.97 | 1.19 | 1.06 | 2.62 |
| 3,060.00 | 11.70 | 133.23 | 3,017.73 | -304.36 | 321.34 | 442.50 | 0.44 | -0.44 | 0.03 |
| 3,092.00 | 11.66 | 132.73 | 3,049.06 | -308.78 | 326.08 | 448.97 | 0.34 | -0.12 | -1.56 |
| 3,123.00 | 12.19 | 132.81 | 3,079.39 | -313.13 | 330.78 | 455.38 | 1.71 | 1.71 | 0.26 |
| 3,155.00 | 12.99 | 135.32 | 3,110.62 | -317.98 | 335.79 | 462.35 | 3.03 | 2.50 | 7.84 |
| 3,187.00 | 13.43 | 135.95 | 3,141.78 | -323.21 | 340.90 | 469.66 | 1.45 | 1.37 | 1.97 |
| 3,219.00 | 13.70 | 136.80 | 3,172.89 | -328.64 | 346.08 | 477.16 | 1.05 | 0.84 | 2.66 |
| 3,250.00 | 13.14 | 135.40 | 3,203.04 | -333.83 | 351.06 | 484.35 | 2.09 | -1.81 | -4.52 |
| 3,282.00 | 12.70 | 134.29 | 3,234.23 | -338.87 | 356.14 | 491.51 | 1.58 | -1.37 | -3.47 |
| 3,314.00 | 12.91 | 134.74 | 3,265.43 | -343.84 | 361.19 | 498.60 | 0.73 | 0.66 | 1.41 |
| 3,345.00 | 13.23 | 135.10 | 3,295.63 | -348.79 | 366.16 | 505.61 | 1.07 | 1.03 | 1.16 |
| 3,377.00 | 13.81 | 136.12 | 3,326.74 | -354.14 | 371.39 | 513.09 | 1.96 | 1.81 | 3.19 |
| 3,409.00 | 13.89 | 134.86 | 3,357.81 | -359.60 | 376.76 | 520.75 | 0.98 | 0.25 | -3.94 |
| 3,441.00 | 13.77 | 135.05 | 3,388.88 | -365.01 | 382.17 | 528.40 | 0.40 | -0.37 | 0.59 |
| 3,472.00 | 13.51 | 134.13 | 3,419.01 | -370.14 | 387.38 | 535.71 | 1.09 | -0.84 | -2.97 |
| 3,504.00 | 13.32 | 133.35 | 3,450.14 | -375.27 | 392.74 | 543.13 | 0.82 | -0.59 | -2.44 |
| 3,536.00 | 13.17 | 132.75 | 3,481.29 | -380.28 | 398.10 | 550.46 | 0.64 | -0.47 | -1.87 |
| 3,567.00 | 13.04 | 132.73 | 3,511.48 | -385.05 | 403.26 | 557.49 | 0.42 | -0.42 | -0.06 |
| 3,599.00 | 13.30 | 133.13 | 3,542.64 | -390.01 | 408.60 | 564.77 | 0.86 | 0.81 | 1.25 |
| 3,631.00 | 13.33 | 133.04 | 3,573.78 | -395.05 | 413.98 | 572.14 | 0.11 | 0.09 | -0.28 |
| 3,663.00 | 13.55 | 131.77 | 3,604.90 | -400.06 | 419.47 | 579.57 | 1.15 | 0.69 | -3.97 |
| 3,694.00 | 13.40 | 132.14 | 3,635.05 | -404.89 | 424.84 | 586.79 | 0.56 | -0.48 | 1.19 |
| 3,726.00 | 13.32 | 131.74 | 3,666.18 | -409.83 | 430.34 | 594.17 | 0.38 | -0.25 | -1.25 |
| 3,758.00 | 13.18 | 132.36 | 3,697.33 | -414.75 | 435.79 | 601.50 | 0.62 | -0.44 | 1.94 |
| 3,789.00 | 13.04 | 132.09 | 3,727.52 | -419.47 | 441.00 | 608.53 | 0.49 | -0.45 | -0.87 |
| 3,821.00 | 12.67 | 131.88 | 3,758.72 | -424.24 | 446.29 | 615.64 | 1.17 | -1.16 | -0.66 |
| 3,853.00 | 12.19 | 132.86 | 3,789.97 | -428.88 | 451.38 | 622.52 | 1.64 | -1.50 | 3.06 |
| 3,885.00 | 11.96 | 133.53 | 3,821.26 | -433.46 | 456.26 | 629.21 | 0.84 | -0.72 | 2.09 |
| 3,916.00 | 11.91 | 134.21 | 3,851.59 | -437.90 | 460.88 | 635.62 | 0.48 | -0.16 | 2.19 |
| 3,948.00 | 11.74 | 135.63 | 3,882.91 | -442.53 | 465.52 | 642.18 | 1.05 | -0.53 | 4.44 |
| 3,980.00 | 11.73 | 138.03 | 3,914.24 | -447.28 | 469.98 | 648.68 | 1.53 | -0.03 | 7.50 |
| 4,011.00 | 12.01 | 138.67 | 3,944.58 | -452.04 | 474.21 | 655.04 | 1.00 | 0.90 | 2.06 |
| 4,043.00 | 12.04 | 137.76 | 3,975.88 | -457.01 | 478.66 | 661.70 | 0.60 | 0.09 | -2.84 |
| 4,075.00 | 11.88 | 138.59 | 4,007.18 | -461.95 | 483.08 | 668.32 | 0.73 | -0.50 | 2.59 |



Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User DB

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,107.00 | 12.21 | 137.89 | 4,038.48 | -466.93 | 487.53 | 674.98 | 1.13 | 1.03 | -2.19 |
| 4,138.00 | 12.20 | 137.04 | 4,068.78 | -471.76 | 491.96 | 681.53 | 0.58 | -0.03 | -2.74 |
| 4,170.00 | 12.05 | 137.87 | 4,100.06 | -476.71 | 496.50 | 688.24 | 0.72 | -0.47 | 2.59 |
| 4,202.00 | 12.28 | 137.59 | 4,131.35 | -481.70 | 501.04 | 694.97 | 0.74 | 0.72 | -0.87 |
| 4,233.00 | 12.22 | 138.06 | 4,161.64 | -486.58 | 505.45 | 701.54 | 0.38 | -0.19 | 1.52 |
| 4,265.00 | 11.80 | 137.85 | 4,192.94 | -491.52 | 509.91 | 708.19 | 1.32 | -1.31 | -0.66 |
| 4,297.00 | 11.92 | 135.99 | 4,224.26 | -496.33 | 514.40 | 714.76 | 1.25 | 0.37 | -5.81 |
| 4,329.00 | 11.81 | 137.28 | 4,255.57 | -501.11 | 518.92 | 721.33 | 0.90 | -0.34 | 4.03 |
| 4,360.00 | 12.09 | 136.97 | 4,285.90 | -505.81 | 523.29 | 727.75 | 0.93 | 0.90 | -1.00 |
| 4,392.00 | 12.24 | 136.34 | 4,317.18 | -510.72 | 527.92 | 734.49 | 0.63 | 0.47 | -1.97 |
| 4,424.00 | 12.37 | 137.16 | 4,348.45 | -515.68 | 532.59 | 741.30 | 0.68 | 0.41 | 2.56 |
| 4,455.00 | 12.42 | 138.70 | 4,378.73 | -520.62 | 537.05 | 747.94 | 1.08 | 0.16 | 4.97 |
| 4,487.00 | 12.29 | 138.22 | 4,409.98 | -525.75 | 541.59 | 754.78 | 0.52 | -0.41 | -1.50 |
| 4,519.00 | 12.25 | 138.61 | 4,441.25 | -530.83 | 546.10 | 761.56 | 0.29 | -0.12 | 1.22 |
| 4,551.00 | 11.89 | 138.49 | 4,472.55 | -535.85 | 550.53 | 768.24 | 1.13 | -1.12 | -0.37 |
| 4,582.00 | 11.78 | 138.95 | 4,502.89 | -540.63 | 554.73 | 774.58 | 0.47 | -0.35 | 1.48 |
| 4,614.00 | 11.72 | 138.94 | 4,534.22 | -545.54 | 559.01 | 781.08 | 0.19 | -0.19 | -0.03 |
| 4,646.00 | 11.86 | 137.09 | 4,565.54 | -550.40 | 563.38 | 787.60 | 1.26 | 0.44 | -5.78 |
| 4,677.00 | 12.13 | 136.53 | 4,595.86 | -555.10 | 567.79 | 794.04 | 0.95 | 0.87 | -1.81 |
| 4,709.00 | 12.03 | 136.77 | 4,627.16 | -559.97 | 572.39 | 800.73 | 0.35 | -0.31 | 0.75 |
| 4,741.00 | 12.04 | 136.30 | 4,658.45 | -564.81 | 576.98 | 807.40 | 0.31 | 0.03 | -1.47 |
| 4,773.00 | 12.21 | 136.42 | 4,689.74 | -569.67 | 581.62 | 814.12 | 0.54 | 0.53 | 0.37 |
| 4,804.00 | 12.00 | 137.11 | 4,720.05 | -574.41 | 586.07 | 820.62 | 0.82 | -0.68 | 2.23 |
| 4,836.00 | 12.05 | 137.11 | 4,751.35 | -579.29 | 590.61 | 827.28 | 0.16 | 0.16 | 0.00 |
| 4,867.00 | 12.04 | 136.73 | 4,781.66 | -584.02 | 595.02 | 833.74 | 0.26 | -0.03 | -1.23 |
| 4,899.00 | 11.85 | 136.36 | 4,812.97 | -588.83 | 599.58 | 840.36 | 0.64 | -0.59 | -1.16 |
| 4,930.00 | 12.10 | 135.47 | 4,843.30 | -593.45 | 604.05 | 846.79 | 1.00 | 0.81 | -2.87 |
| 4,963.00 | 12.15 | 134.34 | 4,875.56 | -598.34 | 608.96 | 853.72 | 0.74 | 0.15 | -3.42 |
| 4,994.00 | 12.28 | 133.98 | 4,905.86 | -602.91 | 613.67 | 860.28 | 0.49 | 0.42 | -1.16 |
| 5,026.00 | 12.18 | 133.18 | 4,937.13 | -607.58 | 618.58 | 867.06 | 0.61 | -0.31 | -2.50 |
| 5,058.00 | 11.87 | 133.61 | 4,968.43 | -612.16 | 623.42 | 873.72 | 1.01 | -0.97 | 1.34 |
| 5,089.00 | 11.90 | 132.61 | 4,998.77 | -616.53 | 628.09 | 880.11 | 0.67 | 0.10 | -3.23 |
| 5,121.00 | 11.65 | 133.23 | 5,030.09 | -620.97 | 632.87 | 886.63 | 0.88 | -0.78 | 1.94 |
| 5,153.00 | 11.35 | 133.34 | 5,061.45 | -625.35 | 637.51 | 893.01 | 0.94 | -0.94 | 0.34 |
| 5,185.00 | 11.30 | 133.68 | 5,092.83 | -629.67 | 642.07 | 899.29 | 0.26 | -0.16 | 1.06 |
| 5,216.00 | 11.19 | 134.06 | 5,123.23 | -633.86 | 646.43 | 905.34 | 0.43 | -0.35 | 1.23 |
| 5,248.00 | 10.99 | 134.78 | 5,154.63 | -638.17 | 650.82 | 911.49 | 0.76 | -0.62 | 2.25 |
| 5,280.00 | 10.80 | 134.51 | 5,186.06 | -642.42 | 655.13 | 917.54 | 0.61 | -0.59 | -0.84 |
| 5,311.00 | 10.52 | 133.92 | 5,216.52 | -646.42 | 659.24 | 923.28 | 0.97 | -0.90 | -1.90 |
| 5,343.00 | 10.13 | 133.48 | 5,248.00 | -650.38 | 663.38 | 929.01 | 1.24 | -1.22 | -1.37 |
| 5,375.00 | 10.10 | 133.60 | 5,279.51 | -654.25 | 667.46 | 934.63 | 0.11 | -0.09 | 0.37 |
| 5,391.34 | 10.21 | 133.23 | 5,295.59 | -656.23 | 669.55 | 937.51 | 0.79 | 0.69 | -2.27 |
| GB S-34-8-17 Target | | | | | | | | | |
| 5,407.00 | 10.32 | 132.88 | 5,311.00 | -658.14 | 671.59 | 940.30 | 0.79 | 0.69 | -2.23 |
| 5,438.00 | 10.56 | 133.98 | 5,341.49 | -662.00 | 675.67 | 945.92 | 1.01 | 0.77 | 3.55 |
| 5,470.00 | 10.82 | 134.62 | 5,372.93 | -666.15 | 679.92 | 951.85 | 0.89 | 0.81 | 2.00 |
| 5,502.00 | 11.04 | 136.57 | 5,404.35 | -670.48 | 684.16 | 957.92 | 1.34 | 0.69 | 6.09 |
| 5,533.00 | 11.31 | 136.44 | 5,434.76 | -674.84 | 688.30 | 963.92 | 0.87 | 0.87 | -0.42 |
| 5,565.00 | 11.21 | 134.94 | 5,466.15 | -679.31 | 692.66 | 970.17 | 0.97 | -0.31 | -4.69 |
| 5,597.00 | 11.04 | 133.58 | 5,497.55 | -683.62 | 697.08 | 976.34 | 0.98 | -0.53 | -4.25 |
| 5,628.00 | 10.82 | 132.68 | 5,527.99 | -687.60 | 701.33 | 982.17 | 1.46 | -1.35 | -2.90 |
| 5,660.00 | 10.42 | 131.74 | 5,559.46 | -691.53 | 705.66 | 988.00 | 0.82 | -0.62 | -2.94 |
| 5,691.00 | 10.15 | 132.53 | 5,589.96 | -695.24 | 709.76 | 993.53 | 0.98 | 0.87 | 2.55 |
| 5,723.00 | 10.06 | 134.36 | 5,621.46 | -699.10 | 713.84 | 999.14 | 1.05 | 0.31 | 5.69 |
| 5,755.00 | 10.67 | 136.37 | 5,652.94 | -703.19 | 717.88 | 1,004.89 | 2.25 | 1.94 | 6.31 |



Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Greater Boundary
Well: Greater Boundary S-34-8-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Greater Boundary S-34-8-17
TVD Reference: GL 5059' & RKB 12' @ 5071.00ft
MD Reference: GL 5059' & RKB 12' @ 5071.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User DB

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 5,786.00 | 11.19 | 135.90 | 5,683.38 | -707.43 | 721.95 | 1,010.77 | 1.70 | 1.68 | -1.52 |
| 5,818.00 | 11.37 | 135.88 | 5,714.76 | -711.93 | 726.31 | 1,017.03 | 0.56 | 0.56 | -0.06 |
| 5,850.00 | 10.71 | 136.37 | 5,746.17 | -716.34 | 730.56 | 1,023.15 | 2.08 | -2.06 | 1.53 |
| 5,882.00 | 10.63 | 136.48 | 5,777.61 | -720.64 | 734.64 | 1,029.08 | 0.26 | -0.25 | 0.34 |
| 5,913.00 | 10.75 | 137.29 | 5,808.08 | -724.83 | 738.57 | 1,034.82 | 0.62 | 0.39 | 2.61 |
| 5,945.00 | 10.81 | 139.24 | 5,839.51 | -729.30 | 742.55 | 1,040.79 | 1.16 | 0.19 | 6.09 |
| 5,977.00 | 10.84 | 140.10 | 5,870.94 | -733.88 | 746.44 | 1,046.78 | 0.51 | 0.09 | 2.69 |
| 6,008.00 | 10.49 | 140.66 | 5,901.41 | -738.30 | 750.10 | 1,052.49 | 1.18 | -1.13 | 1.81 |
| 6,040.00 | 10.15 | 140.77 | 5,932.89 | -742.74 | 753.73 | 1,058.19 | 1.06 | -1.06 | 0.34 |
| 6,072.00 | 10.12 | 139.88 | 5,964.39 | -747.07 | 757.33 | 1,063.79 | 0.50 | -0.09 | -2.78 |
| 6,103.00 | 9.98 | 140.37 | 5,994.91 | -751.22 | 760.79 | 1,069.18 | 0.53 | -0.45 | 1.58 |
| 6,135.00 | 9.68 | 139.00 | 6,026.44 | -755.39 | 764.33 | 1,074.62 | 1.19 | -0.94 | -4.28 |
| 6,167.00 | 9.36 | 138.98 | 6,058.00 | -759.38 | 767.80 | 1,079.90 | 1.00 | -1.00 | -0.06 |
| 6,199.00 | 9.04 | 139.71 | 6,089.59 | -763.26 | 771.13 | 1,085.00 | 1.06 | -1.00 | 2.28 |
| 6,261.00 | 9.04 | 139.71 | 6,150.82 | -770.69 | 777.43 | 1,094.70 | 0.00 | 0.00 | 0.00 |

Projection to TD

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|-----------------|-------------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| GB S-34-8-17 Target | 0.00 | 0.00 | 5,300.00 | -641.72 | 649.61 | 7,198,051.72 | 2,063,532.23 | 40° 4' 14.368 N | 109° 59' 16.783 W |
| - actual wellpath misses target center by 25.05ft at 5391.34ft MD (5295.59 TVD, -656.23 N, 669.55 E) | | | | | | | | | |
| - Circle (radius 75.00) | | | | | | | | | |
| GB S-34-8-17 PBHL | 0.00 | 0.00 | 6,180.00 | -641.72 | 649.61 | 7,198,051.72 | 2,063,532.23 | 40° 4' 14.368 N | 109° 59' 16.783 W |
| - actual wellpath misses target center by 183.91ft at 6261.00ft MD (6150.82 TVD, -770.69 N, 777.43 E) | | | | | | | | | |
| - Circle (radius 75.00) | | | | | | | | | |

Checked By: _____ Approved By: _____ Date: _____